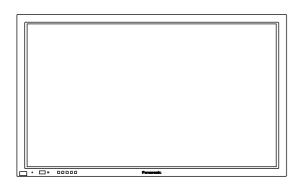
# Service Manual



**Progressive Wide Plasma Display** 

## TH-37PW7BX

TH-37PW7EX
TH-37PWD7BK
TH-37PWD7EK
TH-37PWD7UY
TH-42PW7EX
TH-42PW7BX
TH-42PWD7BK
TH-42PWD7BS
TH-42PWD7EK
TH-42PWD7ES
TH-42PWD7ES
TH-42PWD7UY

**GP7D Chassis** 

### **Specifications**

 Power Source (UY Version)
 120 V AC, 50/60 Hz

 Power Source (Except UY)
 220 - 240 V AC, 50/60 Hz

**Power Consumption (UY Version)** 

Maximum 225 W (37 inch) 290 W (42 inch)

Stand-by condition Save OFF 0.8 W, Save ON 0.5 W

Power off condition 0.1 W

Power Consumption (Except UY)

Normal use 185 W (37 inch) 250 W (42 inch)

Stand-by condition Save off 1.0 W, Save on 0.7 W

Power off condition 0.3 W

Plasma Display panel Drive method: AC type 16:9 aspect ratio

Contrast Ratio 4000:1

Screen size 818 mm (W) x 461 mm (H) x 939 mm (diagonal)

(37 inch)

(No. of pixels)  $408,960 (852 (W) \times 480 (H)) [2,556 \times 480 dots]$ 

Operating condition

Temperatuer 32 °F - 104 °F (0 °C - 40 °C)

Humidity 20 % - 80 %

Applicable signals

Colour System NTSC, PAL, PAL60, SECAM, Modified NTSC

920 mm (W)  $\times$  518 mm (H)  $\times$  1,056 mm (diagonal) (42 inch)

## **Panasonic**<sup>®</sup>

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Scanning format 525 (480) / 60i • 60p, 625 (575) / 50i • 50p, 750 (720) / 60p • 50p, 1125 (1080) / 60i • 50i • 24p

• 25p • 30p • 24sF .... SMPTE274M, 1250 (1080) / 50i

PC signals VGA display

VGA

SVGA, XGA, SXGA, UXGA ..... (compressed) Horizontal scanning frequency 15 - 110 kHz Vertical scanning frequency 48 - 120 Hz

**Connection terminals** 

PC

AV (TH-37/42PWDUY) VIDEO IN / OUT (BNC) 1.0 Vp-p (75-ohm or high impedance)

S VIDEO IN (MINI DIN 4PIN) Y: 1 Vp-p (75-ohm), C: 0.286 Vp-p (75-ohm)

AUDIO IN (RCA PIN JACK x2) 0.5 Vrms (high impedance)

COMPONENT / RGB (TH-

37/42PWDUY)

Y / G (BNC)

0.7 Vp-p / non-composite (75-ohm)

1.0 Vp-p / composite (75-ohm)

PB / B (BNC), PR / R (BNC) 0.7 Vp-p (75 ohm)

AUDIO IN (RCA PIN JACK x 2) 0.5 Vrms (high impedance) (HIGH-DENSITY D-SUB 15PIN) R, G, B / 0.7 Vp-p (75-ohm)

HD, VD / 1.0 - 5.0 Vp-p (high impedance)

Component

Y:1.0 Vp-p (75-ohm: include sync)

 $P_B / C_B$ :±0.35 Vp-p (75-ohm)  $P_R / C_R$ :±0.35 Vp-p (75-ohm)

AUDIO IN (M3 JACK) 0.5 Vrms (high impedance)

SERIAL EXTERNAL CONTROL TERMINAL (D-SUB 9PIN) RS-232C COMPATIBLE

SPEAKERS (6  $\Omega$ ) 16 W [8 W + 8 W] (10 % THD)

**Accessories Supplied** 

Remote Control Transmitter EUR646529 Batteries 2 × AA Size

Fixing bands (TMME203 or TMME187)  $\times$  2

Ferrite core J0KF00000018  $\times$  1, J0KG00000054  $\times$  2

**Dimensions (W x H x D)** 920 mm x 550 mm x 89 mm (37 inch) 1,020 mm x 610 mm x 89 mm (42 inch)

Mass (Weight) (UY Version)

main unit only approx. 54.0 lbs (37 inch) approx. 63.9 lbs (42 inch) with speakers approx. 63.3 lbs (37 inch) approx. 73.2 lbs (42 inch)

Mass (Weight) (Except UY)

main unit only approx. 24.0 kg net (37 inch) approx. 28.5 kg net (42 inch) with speakers approx. 28.2 kg (37 inch) approx. 32.7 kg (42 inch)

#### Notes:

· Design and specifications are subject to change without notice. Mass and dimensions shown are approximate.

#### **⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

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## 1 Applicable signals

#### VIDEO input [Applicable when Multi Screen and Digital Zoom]

	Signal name	Horizontal frequency(kHz)	Vertical frequency(Hz)
1	NTSC	15.73	59.94
2	PAL	15.63	50.00
3	PAL60	15.73	59.94
4	SECAM	15.63	50.00
5	Modified NTSC	15.73	59.94

#### Applicable input signals for PC Input (D-sub 15P) (\* Mark)

	Signal name	Horizontal frequency (kHz)	Vertical	COMPONENT	RGB	PC	When Multi Screen and Digital Zoom
1	525 (480) / 60i	15.73	59.94	*	*	*	*
2	525 (480) / 60p	31.47	59.94	*	*	*1	*
3	625 (575) / 50i	15.63	50.00	*	*	*	*
4	625 (575) / 50p	31.25	50.00	*	*	*	*
5	750 (720) / 60p	45.00	60.00	*	*	*	*
6	750 (720) / 50p	37.50	50.00	*	*	*	*
7	1,125 (1,080) / 60i	33.75	60.00	*	*	*	*
8	1,125 (1,080) / 50i	28.13	50.00	*	*	*	*
9	1,125 (1,080) / 24p	27.00	47.92	*	*	*	*
10	1,125 (1,080) / 24sF	33.75	30.00	*	*	*	*
11	1,125 (1,080) / 25p	28.13	25.00	*	*	*	*
12	1,125 (1,080) / 30p	27.00	24.00	*	*	*	*
13	1,250 (1,080) / 50i	31.25	50.00	*	*	*	*
14	640 × 400 @ 70 Hz	31.46	70.07		*	*	*
15	640 × 480 @60 Hz	31.47	59.94		*2	*	*
16	640 × 480 @ 72 Hz	37.86	72.81		*	*	*
17	640 × 480 @ 75 Hz	37.50	75.00		*	*	*
18	640 × 480 @85 Hz	43.27	85.01		*	*	*
19	852 × 480 @60 Hz	31.47	59.94		*2	*	*
20	800 × 600 @56 Hz	35.16	56.25		*	*	*
21	800 × 600 @60 Hz	37.88	60.32		*	*	*
22	800 × 600 @ 72 Hz	48.08	72.19		*	*	*
23	800 × 600 @ 75 Hz	46.88	75.00		*	*	*
24	800 × 600 @ 85 Hz	53.67	85.06		*	*	*
25	1,024 × 768 @60 Hz	48.36	60.00		*	*	*
26	1,024 × 768 @ 70 Hz	56.48	70.07		*	*	*
27	1,024 × 768 @75 Hz	60.02	75.03		*	*	*
28	1,024 × 768 @85 Hz	68.68	85.00		*	*	*
29	1,152 × 864 @75 Hz	67.50	75.00		*	*	*
30	1,280 × 960 @60 Hz	60.00	60.00		*	*	*
31	1,280 × 960 @85 Hz	85.94	85.00		*	*	*
32	1,280 × 1,024 @60 Hz	63.98	60.02		*	*	*
33	1,280 × 1,024 @75 Hz	79.98	75.03		*	*	*
34	1,280 × 1,024 @85 Hz	91.15	85.02		*	*	*
35	1,600 × 1,200 @60 Hz	75.00	60.00		*	*	*
36	1,600 × 1,200 @65 Hz	81.25	65.00		*	*	*
37	1,066 × 600 @ 60 Hz	37.88	60.32		*	*	*
38	1,366 × 768 @60 Hz	48.36	60.00		*	*	*
39	Macintosh13" (640 × 480)	35.00	66.67		*	*	*
40	Macintosh16" (832 × 624)	49.72	74.54		*	*	*
41	Macintosh21" (1,152 × 870)	68.68	75.06		*	*	*

<sup>1:</sup> When selected the RGB format and 525p signal input to the D-sub terminal, it is recognized as VGA 60Hz signal.

Note: Signals without above specification may not be displayed properly.

<sup>2:</sup> When inputted VGA 60Hz format signal from the other than D-sub terminal, it is recognized as 525p signal.

## 2 Safety Precautions

#### 2.1. General Guidelines

- 1. When servicing, observe the original lead dress. If a short circuit is found, replace all parts which have been overheated or damaged by the short circuit.
- 2. After servicing, see to it that all the protective devices such as insulation barriers, insulation papers shields are properly installed.
- 3. After servicing, make the following leakage current checks to prevent the customer from being exposed to shock hazards.

#### 2.1.1. Leakage Current Cold Check

- Unplug the AC cord and connect a jumper between the two prongs on the plug.
- 2. Measure the resistance value, with an ohmmeter, between the jumpered AC plug and each exposed metallic cabinet part on the equipment such as screwheads, connectors, control shafts, etc. When the exposed metallic part has a return path to the chassis, the reading should be between  $1M\Omega$  and  $5.2M\Omega$ .

When the exposed metal does not have a return path to the chassis, the reading must be  $\infty$  .

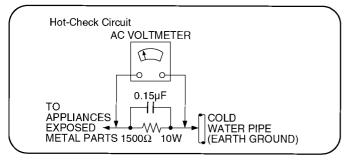


Figure 1

## 2.1.2. Leakage Current Hot Check (See Figure 1.)

- Plug the AC cord directly into the AC outlet. Do not use an isolation transformer for this check.
- 2. Connect a 1.5k $\Omega$ , 10 watts resistor, in parallel with a 0.15 $\mu$ F capacitors, between each exposed metallic part on the set and a good earth ground such as a water pipe, as shown in Figure 1.
- 3. Use an AC voltmeter, with 1000 ohms/volt or more sensitivity, to measure the potential across the resistor.
- Check each exposed metallic part, and measure the voltage at each point.
- 5. Reverse the AC plug in the AC outlet and repeat each of the above measurements.
- 6. The potential at any point should not exceed 0.75 volts RMS. A leakage current tester (Simpson Model 229 or equivalent) may be used to make the hot checks, leakage current must not exceed 1/2 milliamp. In case a measurement is outside of the limits specified, there is a possibility of a shock hazard, and the equipment should be repaired and rechecked before it is returned to the customer.

## 3 Prevention of Electro Static Discharge (ESD) to Electrostatically Sensitive (ES) Devices

Some semiconductor (solid state) devices can be damaged easily by static electricity. Such components commonly are called Electrostatically Sensitive (ES) Devices. Examples of typical ES devices are integrated circuits and some field-effect transistors and semiconductor "chip" components. The following techniques should be used to help reduce the incidence of component damage caused by electro static discharge (ESD).

- 1. Immediately before handling any semiconductor component or semiconductor-equipped assembly, drain off any ESD on your body by touching a known earth ground. Alternatively, obtain and wear a commercially available discharging ESD wrist strap, which should be removed for potential shock reasons prior to applying power to the unit under test.
- 2. After removing an electrical assembly equipped with ES devices, place the assembly on a conductive surface such as alminum foil, to prevent electrostatic charge buildup or exposure of the assembly.
- 3. Use only a grounded-tip soldering iron to solder or unsolder ES devices.
- 4. Use only an anti-static solder removal device. Some solder removal devices not classified as "anti-static (ESD protected)" can generate electrical charge sufficient to damage ES devices.
- 5. Do not use freon-propelled chemicals. These can generate electrical charges sufficient to damage ES devices.
- 6. Do not remove a replacement ES device from its protective package until immediately before you are ready to install it. (Most replacement ES devices are packaged with leads electrically shorted together by conductive foam, alminum foil or comparable conductive material).
- 7. Immediately before removing the protective material from the leads of a replacement ES device, touch the protective material to the chassis or circuit assembly into which the device will be installed.

#### Caution

Be sure no power is applied to the chassis or circuit, and observe all other safety precautions.

8. Minimize bodily motions when handling unpackaged replacement ES devices. (Otherwise hamless motion such as the brushing together of your clothes fabric or the lifting of your foot from a carpeted floor can generate static electricity (ESD) sufficient to damage an ES device).

#### **IMPORTANT SAFETY NOTICE**

There are special components used in this equipment which are imporant for safety.

These parts are marked by  $\triangle$  in the schematic diagrams, Exploded Views and replacement parts list. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire, or other hazards. Do not modify the original design without permission of manufacturer.

## 4 About lead free solder (PbF)

Note: Lead is listed as (Pb) in the periodic table of elements.

In the information below, Pb will refer to Lead solder, and PbF will refer to Lead Free Solder.

The Lead Free Solder used in our manufacturing process and discussed below is (Sn+Ag+Cu).

That is Tin (Sn), Silver (Ag) and Copper (Cu) although other types are available.

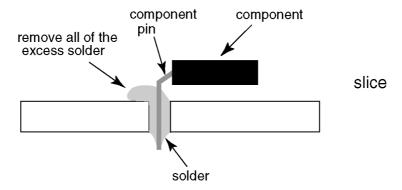
This model uses Pb Free solder in it's manufacture due to environmental conservation issues. For service and repair work, we'd suggest the use of Pb free solder as well, although Pb solder may be used.

PCBs manufactured using lead free solder will have the PbF within a leaf Symbol [95] stamped on the back of PCB.

#### Caution

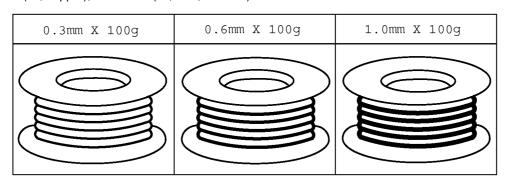
- Pb free solder has a higher melting point than standard solder. Typically the melting point is  $50 \sim 70$  °F ( $30\sim40$  °C) higher. Please use a high temperature soldering iron and set it to  $700 \pm 20$  °F ( $370 \pm 10$  °C).
- Pb free solder will tend to splash when heated too high (about 1100 °F or 600 °C).

  If you must use Pb solder, please completely remove all of the Pb free solder on the pins or solder area before applying Pb solder. If this is not practical, be sure to heat the Pb free solder until it melts, before applying Pb solder.
- After applying PbF solder to double layered boards, please check the component side for excess solder which may flow onto the opposite side. (see figure below)



#### Suggested Pb free solder

There are several kinds of Pb free solder available for purchase. This product uses Sn+Ag+Cu (tin, silver, copper) solder. However, Sn+Cu (tin, copper), Sn+Zn+Bi (tin, zinc, bismuth) solder can also be used.



## 5 PCB Structure sheet of GP7D chassis

Board Name	Function	Remarks
D	Digital Signal Processor	1
J	Slot Interface & SYNC processor	1
Z	Audio out, DC-DC converter	
SS	Sustain Out	1
SC	Scan out	1
SU	Sustain connection (Upper)	1
SD	Sustain connection (Lower)	1
C1	Data Drive (Lower Right)	
C2	Data Drive (Lower Left)	
H3	Speaker terminal	
S1	Power switch	
SS2	Sustain connection (Upper)	
SS3	Sustain connection (Lower)	
V1	Front SW. & Remote receiver	
PF	Line filter	
Р	Power supply	1
HX	PC_type_Input terminal	
НВ	BNC Composite/Component Video	2
HA	BNC Component Video	2

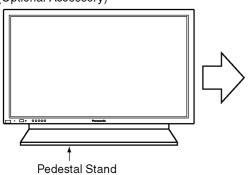
#### Remarks

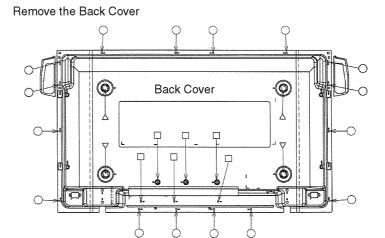
- 1. Recommend PCB's for initial service for GP7D chassis.
- 2. For System model except BK, BS, EK, ES model

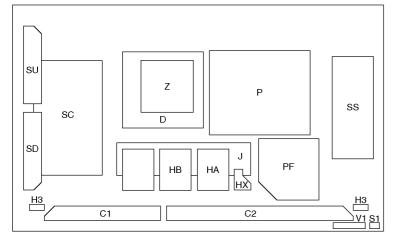
## 6 Service Hint

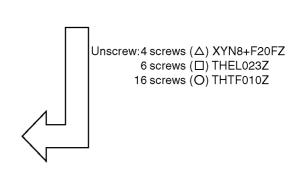
[How to set the plasma unit for servicing]

Place the plasma unit on the pedestal stand. (Optional Accessory)









P.C. Boards Location

Service position for HB-Board, HA-Board and TY-42TM6

#### Note:

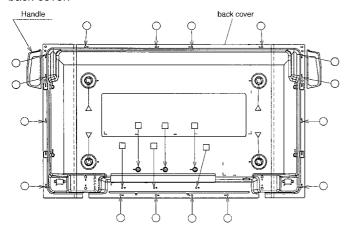
Extension cable kit for Slot Board is supplied as service fixtures and tools. (Part No. TZSC0704)

## 7 P.C.Board and Plasma panel replacement

Prior to the replacement, place the unit on the pedestal stand remove the front frame.

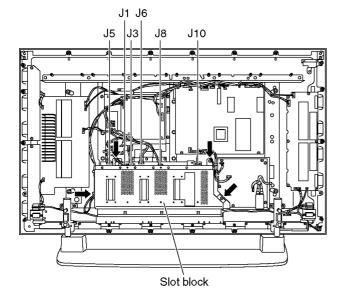
#### 7.1. Removal of the back cover

a. Unscrew the screws (x16 O, x6  $\square$ , x4  $\triangle$ ) and remove the back cover.



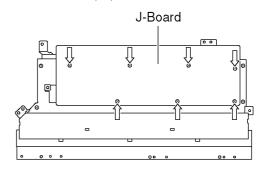
#### 7.2. Removal of the Slot block

- a. Unscrew the couplers (J1, J3, J5, J6, J8, J10).
- b. Unscrew the screws (x4) and remove the slot block.



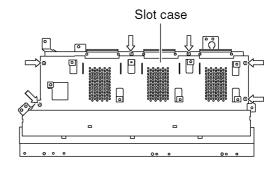
#### 7.3. Removal of the J-Board

a. Unscrew the screws (x7) and remote the J-Board.

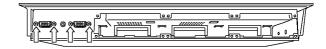


#### 7.4. Removal of the HX-Board

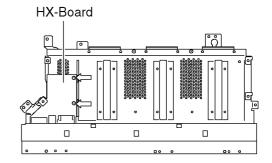
a. Unscrew the screws (x6) and remove the slot case.



b. Unscrew the screws (x4).

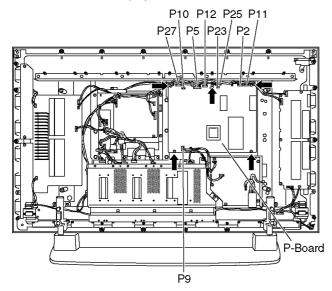


c. Unscrew the screws (x2) and remove the HX-Board.



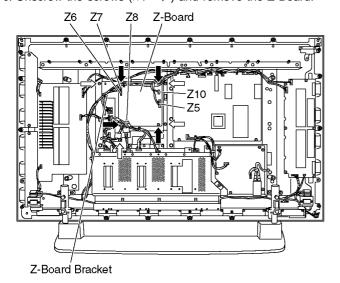
#### 7.5. Removal of the P-Board

- a. Remove the couplers (P2, P5, P7, P9, P10, P11, P12, P23, P25, P27).
- b. Unscrew the screws (x5) and remove the P-Board.



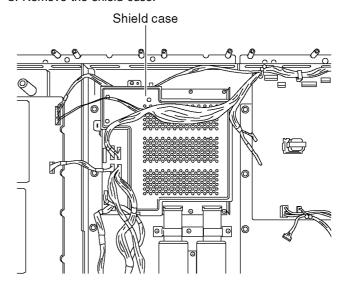
#### 7.6. Removal of the Z-Board

- a. Remove the couplers (Z5, Z6, Z7, Z8).
- b. Unscrew the screws (x4  $\Longrightarrow$ ) and remove the Z-Board with the Z-Board Bracket.
- c. Unscrew the screws (x4 \infty) and remove the Z-Board.

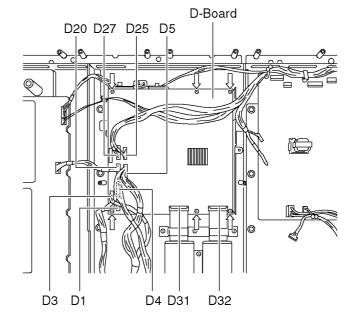


#### 7.7. Removal of the D-Board

- a. Disconnect the couplers (D1, D3, D5, D25, D27) and the flexible cables (D31, D32).
- b. Remove the shield cuse.

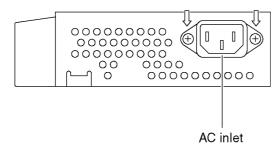


c. Unscrew the screws (x6) and remove the D-Board.

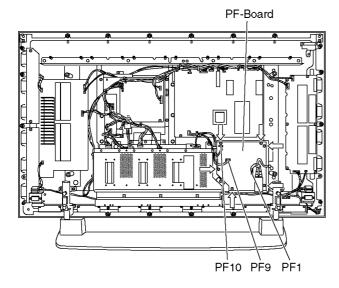


#### 7.8. Removal of the PF-Board

- a. Remove the coupler (PF1).
- b. Unscrew the screws (x2) and remove the AC inlet.

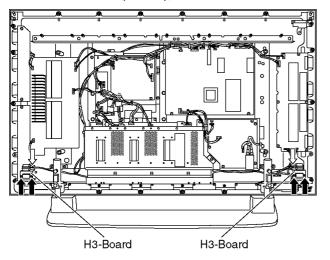


- c. Remove the couplers (PF9, PF10).
- d. Unscrew the screws (x4), and remove the PF-Board.



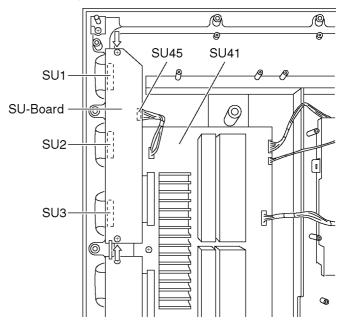
#### 7.9. Removal of the H3-Board

- a. Unscrew the screws ( $\times 2$   $\Longrightarrow$ ), and remove the H3-Board with the Bracket.
- b. Unscrew the screws (x4 ), and remove the H3-Board.



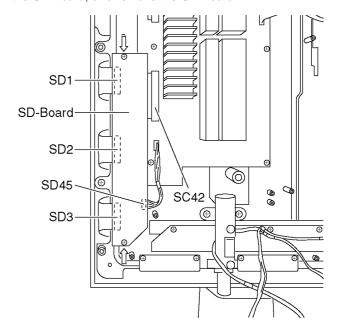
#### 7.10. Removal of the SU-Board

- a. Unscrew the screws (x2).
- b. Slide the SU-Board to the left and disconnect from the couplers (SC41) on the SC-Board.
- c. Remove the coupler (SU45).
- d. Remove the flexible cables (SU1, SU2, SU3) connected to the SU-Board, and remove the SU-Board.



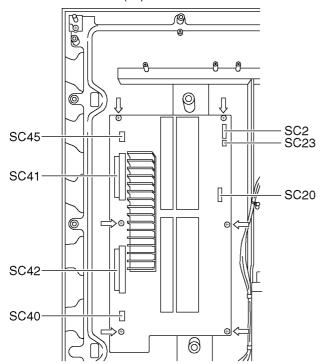
#### 7.11. Removal of the SD-Board

- a. Unscrew the screws (x2).
- b. Slide the SD-Board to the left and disconnect from the couplers (SC42) on the SC-Board.
- c. Remove the coupler (SD46).
- d. Remove the flexible cables (SD1, SD2, SD3) connected to the SD-Board, and remove the SD-Board.



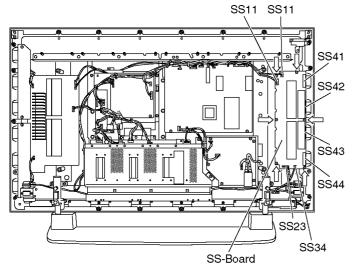
#### 7.12. Removal of the SC-Board

a. Remove the couplers (SC2, SC20, SC23, SC45, SC46). Unscrew the screws (x6) and remove the SC-Board.



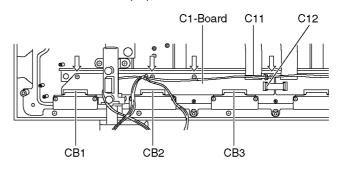
#### 7.13. Removal of the SS-Board

- a. Remove the couplers (SS11, SS12, SS23, SS34).
- b. Remove the flexible cables (SS41, SS42, SS43, SS44).
- c. Unscrew the screws (x6), and remove the SS-Board.



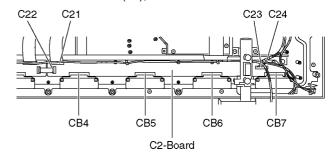
#### 7.14. Removal of the C1-Board

- a. Remove the flexible cables (CB1, CB2, CB3).
- b. Remove the flexible cables (C11, C12) release the speaker cables from the clampers ( $\times$ 2) on the C1-Board.
- c. Unscrew the screws (x4), and remove the C1-Board.



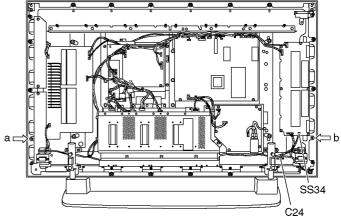
#### 7.15. Removal of the C2-Board

- a. Remove the cables (CB4, CB5, CB6, CB7).
- b. Remove the couplers (C23, C24), a flexible cable (C21) and release the speaker cables from the clamper on the C2-Board.
- c. Unscrew the screws (x4), and remove the C2-Board.

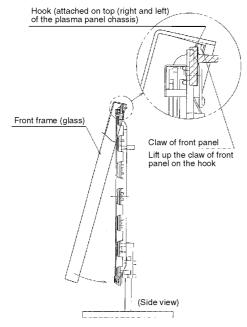


## 7.16. Removal of the Front frame (glass)

a. Remove the screws (x2) fasten on the panel and remove the front panel.



- b. Release all cables from the clamper on the bracket of the front frame.
- c. For leaving the plasma panel from the front frame, pull the bottom of the front frame to forward, lift, and remove.

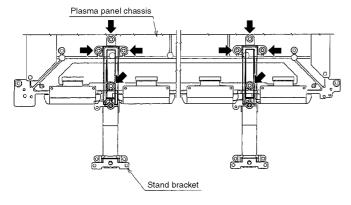


#### 7.17. Removal of stand brackets

a. Remove the plasma panel section from the servicing stand and lay on a table (covered), with the plasma panel surface facing downward.

Spread a soft cloth for protection, to prevent panel surface from scratching.

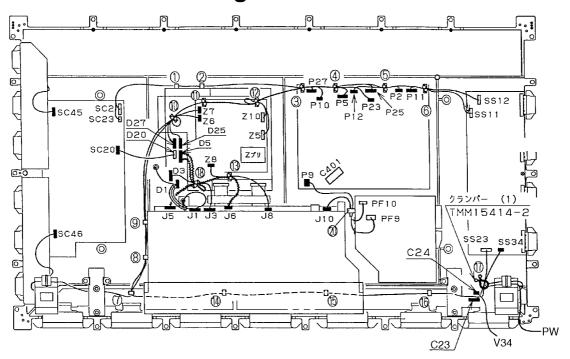
b. Remove the stand bracket (left, right) fastening screws (x4 each) and remove the stand brackets (left, right).



## 7.18. Replacement of the plasma panel

- a. Place the new plasma panel (finished) on the flat surface of the table (covered by a soft cloth), with the plasma panel surface facing downward.
- b. Fit the stand brackets (left, right.) fast 4 screws each on the new plasma panel.
- c. Place the plasma panel section on the servicing stand.
- d. Attach the front frame each P.C.Board and so on, to the new plasma panel.
- \* When fitting the front frame, be careful not to allow any debris, dust or handling residues to remain between the front glass and plasma panel.

## 8 Location of Lead Wiring



CON:NO	CON:NO	1	2	3	4	(5)	6	7	8	9	10	11)	12	13	14	(15)	16	17	18	20
SC2	P2	$\bigcirc$	$\bigcirc$	0	$\bigcirc$	$\bigcirc$														
SC23	— P23	$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$															
SC20	— D20																			
D27	— P27			$\bigcirc$							$( \mathbf{I} )$	$\bigcirc$	$\bigcirc$							
D25	— P25			$\bigcirc$							(II)	$\bigcirc$	$\bigcirc$							
D3	— ЈЗ																		$\bigcirc$	
Z8	—— J8													$\bigcirc$						
D5	J5																		2	
														$\bigcirc$					$\bigcirc$	
<b>Z</b> 5	— P5			$\bigcirc$	$\bigcirc$								2							
<b>Z</b> 7	SP (SC)							$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$									
Z6	SP (SS)							$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$				$\bigcirc$	$\bigcirc$	$\bigcirc$	$\bigcirc$		
P12	— SS12					$\bigcirc$	$\bigcirc$													
P11	— SS11						$\bigcirc$													
C23	— SS23																	$\bigcirc$		
PW	— SS34																	$\bigcirc$		
V34	— C24																			
Z10	— P10			$\bigcirc$									2							
D1	— J1																			
PF9	— P9																			
PF10	— J10																			

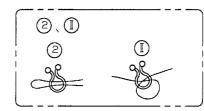
Connector Connection:

P2, P5, P9, P11, P12, P23, P25, P27

Z5, Z6, Z7, Z8, D1, D3, D5, D25, D27

J1, J3, J5, J6, J8, J10, SS34,

C23, C24



## 9 Adjustment Procedure

#### 9.1. Driver Set-up

#### 9.1.1. Item / Preparation

1. Input an APL 100 % white signal.

Set the picture controls: Picture mode: Normal
White balance: Normal

Aspect: 16:9

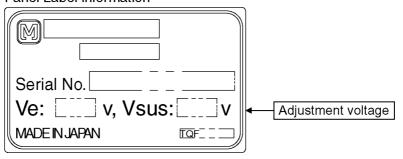
#### 9.1.2. Adjustments

Adjust driver section voltages referring the panel data on the panel data label.

Name	Test Point	Voltage	Volume	Remarks
Vsus	TPVSUS (SS)	174V ± 1V	R628 (P)	
Ve	TPVE (SS)	156V ± 1V	VR6074 (SS)	
Vset	TPVSET (SC)	232V ± 5V		
Vad	TPVAD (SC)	-90V ± 1V	VR6477 (SC)	
Vscn	TPVSCN (SC)	Vad*+120V ± 2V		
Vda	TPVDA (SS)	67V ± 1V	R665 (P)	·

<sup>\*</sup>See the Panel label.

#### Panel Label information



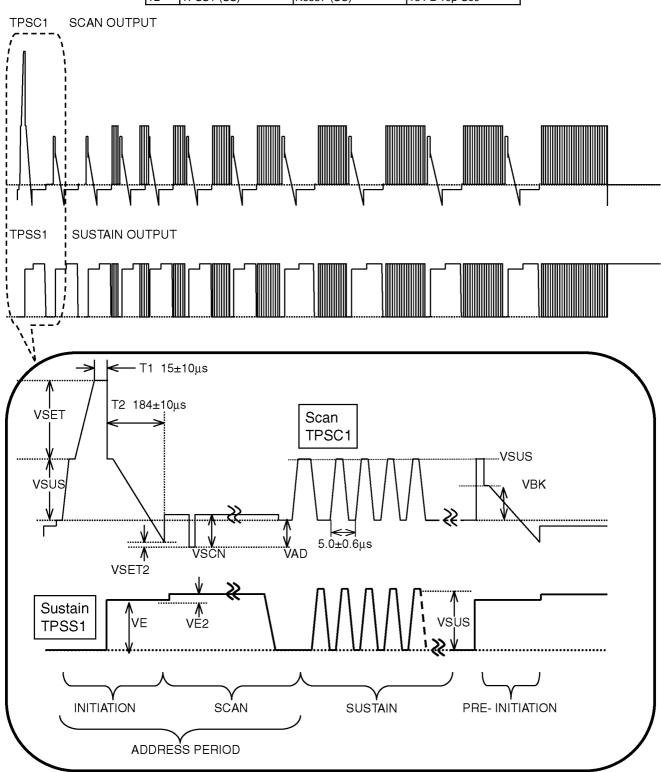
### 9.2. Initialization Pulse Adjust

- 1. Input the Cross hatch signal to plasma video input.
- 2. Set the picture controls as follows.

Picture mode: NormalWhite balance: Cool

- 3. Connect OSC: lloscope to TPSCI and adjust R6523 for 15±10 $\mu$  Sec.
- 4. Connect OSC: lloscope to TPSCI and adjust R6557 for 184±10µ Sec.

	Test point	Volume	Level	
T1	TPSC1 (SC)	R6523 (SC)	15 ± 10μ Sec	
T2	TPSS1 (SS)	R6557 (SC)	184 ± 10µ Sec	



### 9.3. P.C.B. (Printed Circuit Board) exchange

#### 9.3.1. **Caution**

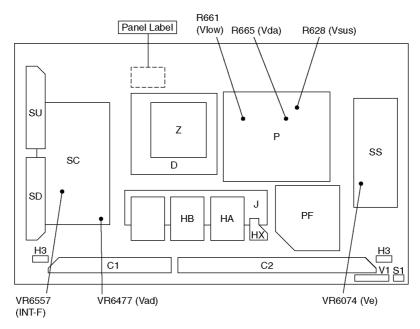
1. To remove P.C.B., wait 1 minute after power was off for discharge from electrolysis capacitors.

#### 9.3.2. Quick adjustment after P.C.B. exchange

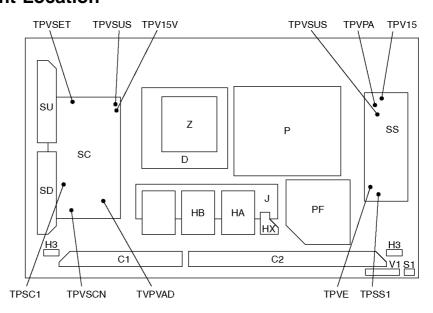
P.C.B.	Name	Test Point	Voltage	Volume	Remarks		
P Board	Vsus	TPVSUS (SS)	174V ± 1V	R628 (P)			
	Vda	TPVDA (SS)	67V ± 1V	R665 (P)			
SC Board	Vad	TPVAD (SC)	-90V ± 1V	VR6477 (SC)			
	Vset	TPVSET (SC)	232V ± 5V				
	Vscn	TPVSCN (SC)	Vad + 120 ± 2V				
SS Board Ve TPVE (		TPVE (SS)	156V ± 1V	VR6074 (SS)			
D, J Board	White blance, Pedestal and Sub brightness for NTSC, PAL, HD, PC and 625i signals						

<sup>\*</sup>See the Panel label.

### 9.4. Adjustment Volume Location



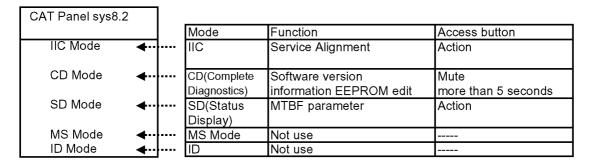
#### 9.5. Test Point Location



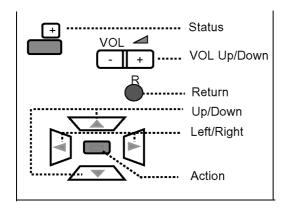
#### 10 Service mode

#### 10.1. CAT (computer Aided Test) mode

#### CAT mode menu



#### Remote control



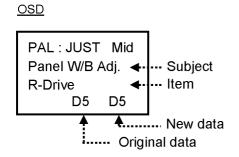
#### How to access the CAT mode.

Press and the hold the **Volume down / - buton** on the front panel of the unit and press the **status** button on the remote control 3 times quickly within 1 second, this will place the unit into the CAT mode.

To exit the CAT mode, access the ID mode and switch off the main power.

#### 10.1.1. IIC mode

Select the IIC mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Action button** on the remote control.



#### How to use the IIC mode.

- 1. Select the alignment **Subject** by **Up/Down buttons** on the remote control.
- 2 .Select the alignment **Item** by **Left/Right buttons** on the remote control.
- 3. Adjust **optimum setting** by **Volume Up/Down buttons** on the remote control.
- 4. The **data is memorized** when press the **R button** on the remote control or change the alignment Subject (or Items).

Subject and item are mentioned on page 14.

To exit the IIC mode, press the R button on the remote control.

#### 10.1.2. CD mode

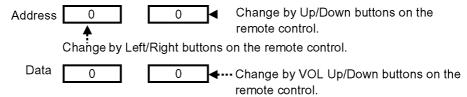
Select the CD mode by **Up/Down button** on the remote control at the front page of CAT mode then press the **Mute button** on the remote control more than 5 sec.

#### OSD MiCom Software version. 0.11 OK ----- Factory use 8 63 0.11 1 Memory data version D Memory data version H 21.05 78 3F Memory data change Address 0 0 Data New data 0 0 • Original data

Micom software version (IC9354), this version can be upgrade by

- 1. replace of new version IC
- 2. Loading the new version software from loader tool, TZSC07036.

Memory data change

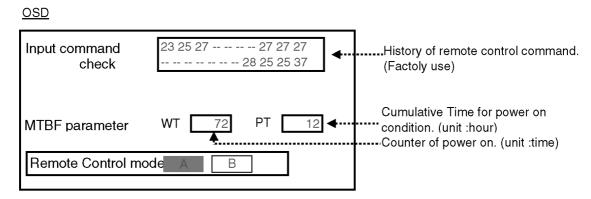


The data is memorized when switch off the main power.

To exit the CD mode, press the **R button** on the remote control.

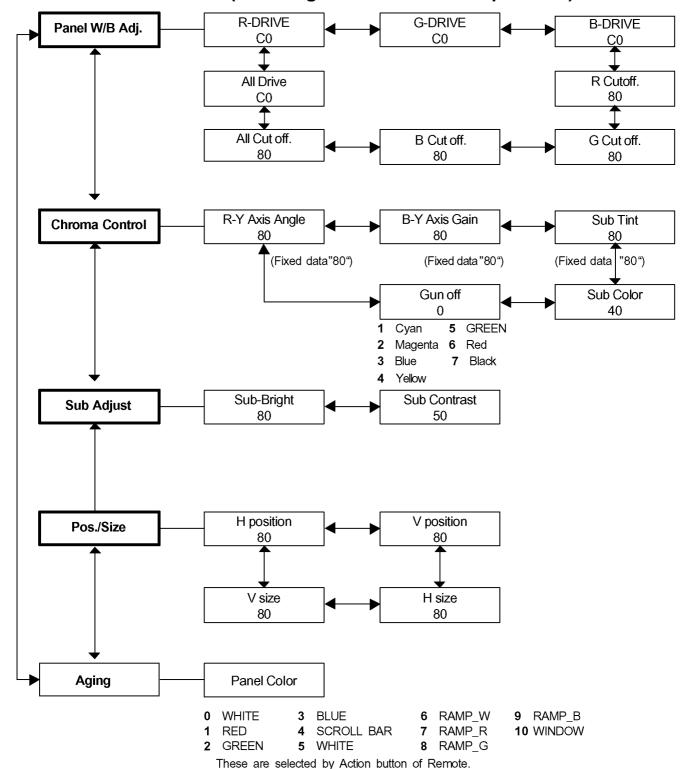
#### 10.1.3. SD mode

Select the SD mode by Up/Down button on the remote control at the front page of CAT mode then press the Action button on the remote control.



To exit the SD mode, press the R button on the remote control.

#### 10.2. IIC mode structure (following items value is sample data.)



## 11 Alignment

## 11.1. PC/RGB panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	PC Gray Scale Pattern  High light 75%  Low light 15%	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	PANEL W/B G Drive PANEL W/B	<ol> <li>Set G cut off to " 80 ".</li> <li>Find 75% of white area by color sensor.</li> <li>Set G Drive to " E8 ".</li> <li>Adjust B and R Drive to set color temperature as shown Fig03.</li> </ol>
				PANEL W/B R,G,B Drive R,G,B Drive PANEL W/B R,G,B cut off	
					Normal(Mid) 0.288 0.296 Warm(Low) 0.313 0.329  Fig03
2			White balance:	PANEL W/B R,G,B Drive	1) Change white balance to "Normal".  2) Repeat procedure 1) to 5) of Cool mode.
3			White balance:	PANEL W/B R,G,B Drive	1) Change white balance to "Warm".  2) Repeat procedure 1) to 5) of Cool mode.
4			Picture: Normal White balance: Cool Aspect: 16:9	Picture Menu Sub Adjust Sub Bright	1) Change color templature to "Cool".

	INPUT	Equipment	Setting	Alignment menu	Procedure
5			Picture: Normal Aspect: 16:9		Write down each color temaparature of R,G,B drive and Cut off data as follows.
	RGB Gray Scale Pattern High light 75% Low light 15%		White balance: Cool Normal Warm		White Balance Cool Normal Warm R Drive G Drive B Drive R Cut off G Cut off B Cut off D Cut off B Cut off
6	DVI Gray Scale Pattern  High light 75%  Low light 15%		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows.  White Balance Cool Normal Warm R Drive G Drive B Drive R Cut off G Cut off B Cut off  B Cut off  Copy PC R,G,B drive and cut off data of each white balance mode to DVI position.

	INPUT	Equipment	Setting	Alignment menu	Procedure
7			Picture: Normal Aspect: 16:9		Write down each color temaparature of R,G,B drive and Cut off data as follows.
	RGB Gray Scale Pattern  High light 75% Low light 15%		White balance: Cool Normal Warm		White Balance Cool Normal Warm R Drive G Drive B Drive R Cut off G Cut off B Cut off
8	DVI Gray Scale Pattern High light 75% – Low light 15%		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows.  White Balance Cool Normal Warm R Drive G Drive B Drive R Cut off G Cut off B Cut off

## 11.2. HD/ 525i /525p /625i /625p panel white balance

	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern  High light 75%  Low light 15%	Color Analyzer	Picture: Normal White balance: Cool Aspect: 16:9	PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright  PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B	<ul> <li>2)Find 75% of white area by color sensor.</li> <li>3) Set G Drive to "E8 ".</li> <li>4) Adjust B and R Drive to set color temperature as shown Fig04.</li> <li>5) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".</li> </ul>
2			White balance:	PANEL W/B R,G,B Drive	1) Change white balance to "Normal".  2) Repeat procedure 1) to 5) of Cool mode.
3			White balance:	PANEL W/B R,G,B Drive	1) Change white balance to "Warm".  2) Repeat procedure 1) to 5) of Cool mode.
4			Picture: Normal White balance: Cool Aspect: 16:9		1) Change color templature to "Cool".

	INPUT	Equipment	Setting	Alignment menu		Procedure				
5			Picture: Normal Aspect: 16:9			rite down eac t off data as fo	R,G,B drive	and		
						White				
			White balance:			Balance	Cool	Normal	Warm	
	RGB		Cool			R Drive				
	Gray Scale		Normal			G Drive				
	Pattern		Warm			B Drive				
						R Cut off				
						G Cut off				
	$\circ$					B Cut off				
	High light 75% - Low light 15%				3) Co	nange input siç opy HD drive a alance mode to	and cut off d	lata of each	white	
6			Picture: Normal Aspect:			rite down eac t off data as fo		aparature of	R,G,B drive	and
			16:9							
						VA/In tra	1			Ī
			White balance:			White Balance	Cool	Normal	Warm	
	RGB		Cool			R Drive	COOI	Nomai	vvaiiii	
	Gray Scale		Normal			G Drive				
	Pattern		Warm			B Drive				
	attom		Waiiii			R Cut off				
						G Cut off				
	$\circ$					B Cut off				
							l .	1		
	1 1				2)Ch	nange input sig	gnal to 525p	and 625i.		
$ \angle$	High light 75% – Low light 15%					opy HD drive a			white	
					ba	lance mode to	o each signa	als position.		
7			Picture: Normal Aspect: 16:9			rite down eac t off data as fo		aparature of	R,G,B drive	and
						White				ĺ
			White balance:			Balance	Cool	Normal	Warm	
	RGB		Cool			R Drive				
	Gray Scale		Normal			G Drive	1			
	Pattern		Warm			B Drive				
						R Cut off				
						G Cut off				
	$\circ$					B Cut off				
	High light 75%				2)Ch	ange input siç	gnal to 625i	and 625p.		-
	- Low light 15%					opy HD drive a lance mode to			white	

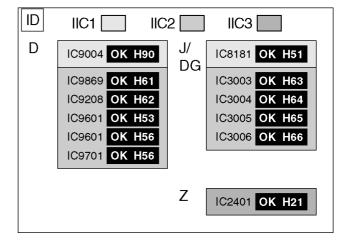
## 12 Trouble shooting guide

#### 12.1. Self Check

#### 12.1.1. Display Indication

- Self-check is used to automatically check the bus line controlled circuit of the Plasma display.
- 2. To get into the Self-check mode, press the volume down button on the customer controls at the front of the set, at the same time pressing the OFF-TIMER button on the remote control, and the screen will show:-

If the CCU ports have been checked and found to be incorrect Or not located then " - - " will appear in place of " OK "



#### 12.1.2. Power LED Blinking timing chart

1. Subject

Information of LED Flashing timing chart.

2. Contents

When an abnormality has occurred the unit, the protection circuit operates and reset to the stand by mode. At this time, the defective block can be identified by the number of blinkes of the Power LED on the front panel of the unit.

Blinking times	Blinking timing	Contents & Check point
2	Once 3 sec  No Light  Light	SCAN Driver1
3		3.3V SOS
4		5V SOS
5		Power SOS
7		SCAN Driver2
9		SUS Driver

#### 3. Remarks

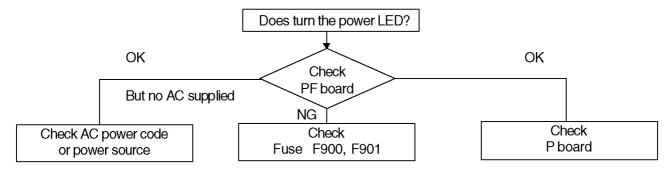
Above Fan function is operated during the fans are installed.

#### 12.2. No Power

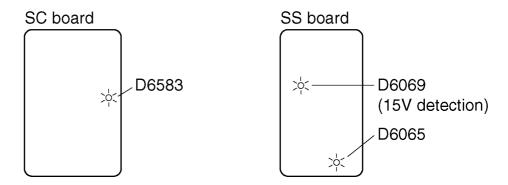
#### First check point

There are following 3 states of No Power indication by power LED.

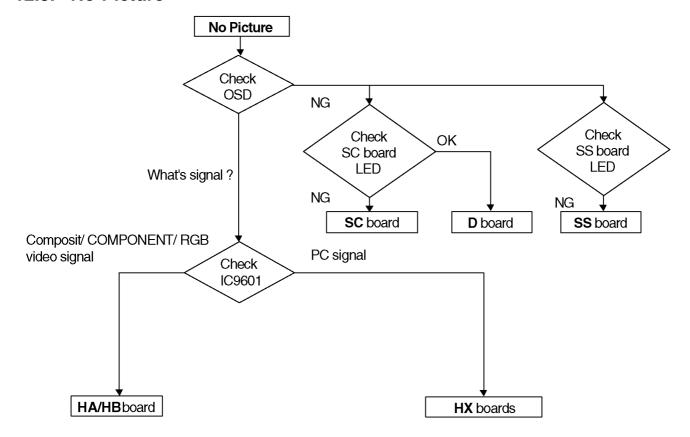
- 1 No lit
- 2. Green is lit then turns red blinking a few seconds later.
- 3. Only red is lit.
- 1. No lit



#### Drive circuits LED indicator

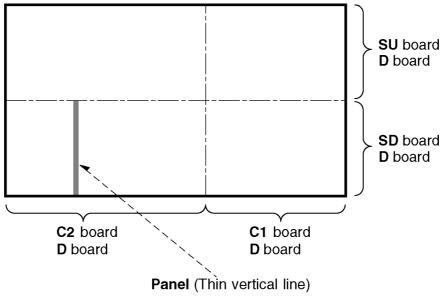


#### 12.3. No Picture



#### 12.4. Local screen failure

Plasma display may have local area failure on the screen. Fig - 1 is the possible defect P.C.B. for each local area.



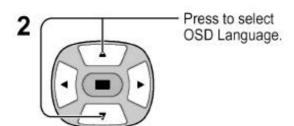
<Local screen failure chart>

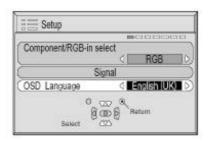
Fig - 1

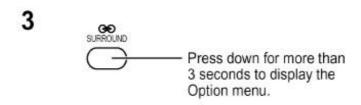
## 13 Option Setting

#### How to access the Option menu

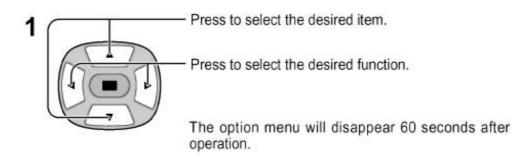
1 Press to display the Setup menu.







#### Setting the Option menus





#### Hidden Option Menu for GP7D series

GP7D chassis series have special function and operation setting facility called Option Menu. This Option Menu is useful for special function required customers. This should be set at the installation stage. The end user could not set or change these because of hidden On screen menu.

Option menus	default setting	Contents
Off-timer function	Enable	Off-timer operation Enable/Disable.
On Screen display	On	Enable/Disable to display input mode indication after power on and no signal indication.
Initial INPUT	Off	Sets the initial input mode when the power is turned on . Allow input mode selection while power is on.
Initial VOL. level	Off	Sets the initial volume level when the power is turned on. Allow Volume control while power is on.
Maximum VOL. Level	Off	Sets the maximum volume to desired level. Volume cannot exceed this level.
INPUT lock	Off	Fixes the input mode to AV, Component/RGB or PC. Can not change input mode by input selection key.
Button lock	Off	Enable/Disable front operation buttons (Input and/or volume up/down)
Studio W/B	Off	Set warm mode color temperature to 3,200 Kelvin.
Remocon User Level	Off	Remote key invalidation. Off: Valid key is all key of remote. User1: Valid key are only Stand-by (ON/OFF), Input, Status, Surround, Sound mute On/Off, and volume adjustment. User2: Valid key is only Stand-by (ON/OFF). User3: All keys are null and void
ID Select	0 to 100	Set ID number from 001 to 100.
Remote ID	Off	Remote ID function On/Off. (While the Remote ID on, standard remote function can not control the unit.)
Serial ID	Off	Serial ID function On/Off
Slot power	Off	Sets the slot power mode the power is turned on. Allow Optional Terminal Board insert Slots while power is on.
V. Installation	Off	V. Installation function On/Off (Not used)

#### Note:

How to set Remocon User Level and Remote ID off

- 1. Access service mode (CAT-mode) and press SET UP key on remote.
- 2. Accsess Hidden option menu.
- 3. Change Remocon User Level and/ or Remote ID set to Off.

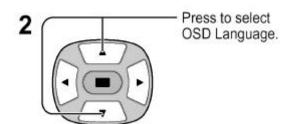
	INPUT	Equipment	Setting	Alignment menu	Procedure				
7			Picture: Normal Aspect: 16:9		Write down each color temaparature of R,G,B drive and Cut off data as follows.				
	RGB Gray Scale Pattern High light 75% - Low light 15%		White balance: Cool Normal Warm		White Balance Cool Normal Warm R Drive G Drive B Drive R Cut off G Cut off B Cut off				
8	DVI Gray Scale Pattern  High light 75%  Low light 15%		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows.    White				

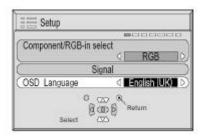
	INPUT	Equipment	Setting	Alignment menu	Procedure
1	HD (720i or 1080i) Gray Scale Pattern High light 75% – Low light 15%	Color Analyzer		PANEL W/B G cut off PANEL W/B B cut off R cut off Sub Adjust Sub Bright  PANEL W/B G Drive PANEL W/B B Drive R Drive PANEL W/B	<ul> <li>2)Find 75% of white area by color sensor.</li> <li>3) Set G Drive to " E8 ".</li> <li>4) Adjust B and R Drive to set color temperature as shown Fig04.</li> <li>5) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".</li> </ul>
2			White balance:	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Normal".  2) Repeat procedure 1) to 5) of Cool mode.
3			White balance:	PANEL W/B R,G,B cut off PANEL W/B R,G,B Drive	1) Change white balance to "Warm".  2) Repeat procedure 1) to 5) of Cool mode.
4			Picture: Normal White balance: Cool Aspect: 16:9		1) Change color templature to "Cool".

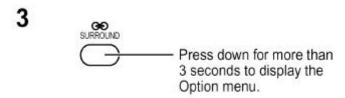
	INPUT	Equipment	Setting	Alignment menu	Procedure						
5			Picture: Normal Aspect: 16:9		Cut	Write down each color temaparature of R,G,B drive and Cut off data as follows.  White					
	RGB		White balance: Cool			Balance R Drive	Cool	Normal	Warm	_	
	Gray Scale		Normal			G Drive				-	
	Pattern		Warm			B Drive					
						R Cut off					
						G Cut off					
	$\circ$					B Cut off					
7	High light 75% - Low light 15%				2)Ch	ange input siç opy HD drive a lance mode to	and cut off d	ata of each	white		
6			Picture: Normal Aspect: 16:9			rite down eac t off data as fo		aparature of	R,G,B drive	e and	
						White					
			White balance:			Balance	Cool	Normal	Warm		
	RGB		Cool			R Drive					
	Gray Scale		Normal			G Drive				_	
	Pattern		Warm			B Drive				_	
						R Cut off					
	$\circ$					G Cut off				-	
						B Cut off				J	
7	High light 75% - Low light 15%				<ul><li>2)Change input signal to 525p and 625i.</li><li>3) Copy HD drive and cut off data of each white balance mode to each signals position.</li></ul>						
7			Picture: Normal Aspect: 16:9		Cut	rite down eac t off data as fo		aparature of	R,G,B drive	e and	
						White		[ <u>,                                    </u>			
	DOD		White balance:			Balance	Cool	Normal	Warm	-[	
	RGB Gray Scale		Cool Normal			R Drive G Drive				-[	
	Pattern		Normai Warm			B Drive	<del> </del>			1	
	. attorn		vvai III			R Cut off	<del> </del>			1	
						G Cut off				1	
	$\circ$					B Cut off				1	
							•			•	
	1 1										
	/ /				2)Ch	ange input siç	gnal to 625i	and 625p.			
/	High light 75%										
14	- Low light 15%					py HD drive a			white		
					ba	lance mode to	o each signa	als position.			

#### How to access the Option menu

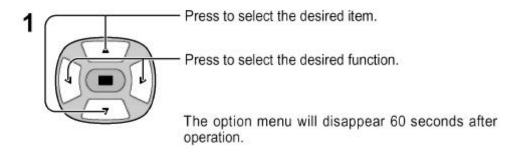
1 Press to display the Setup menu.







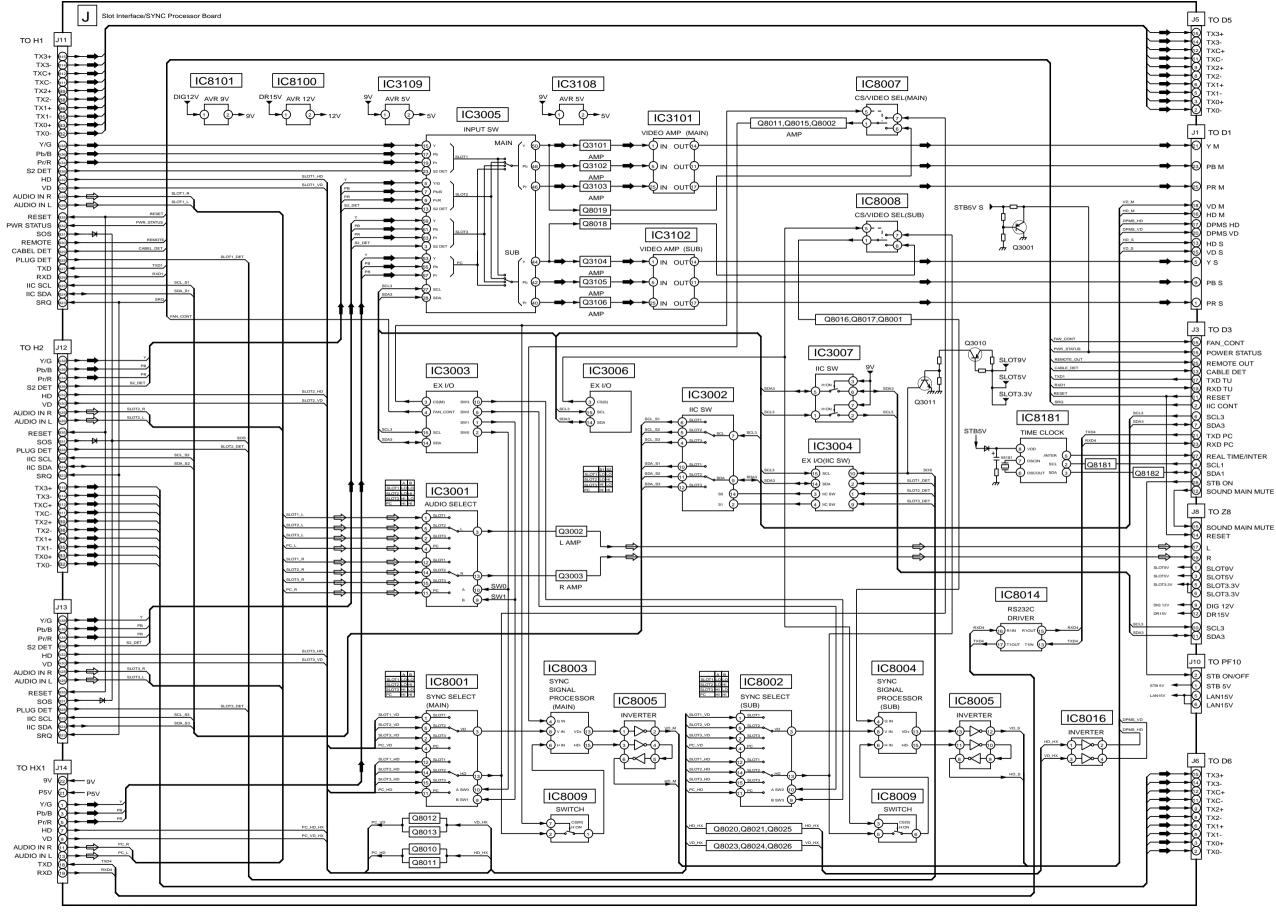
#### Setting the Option menus

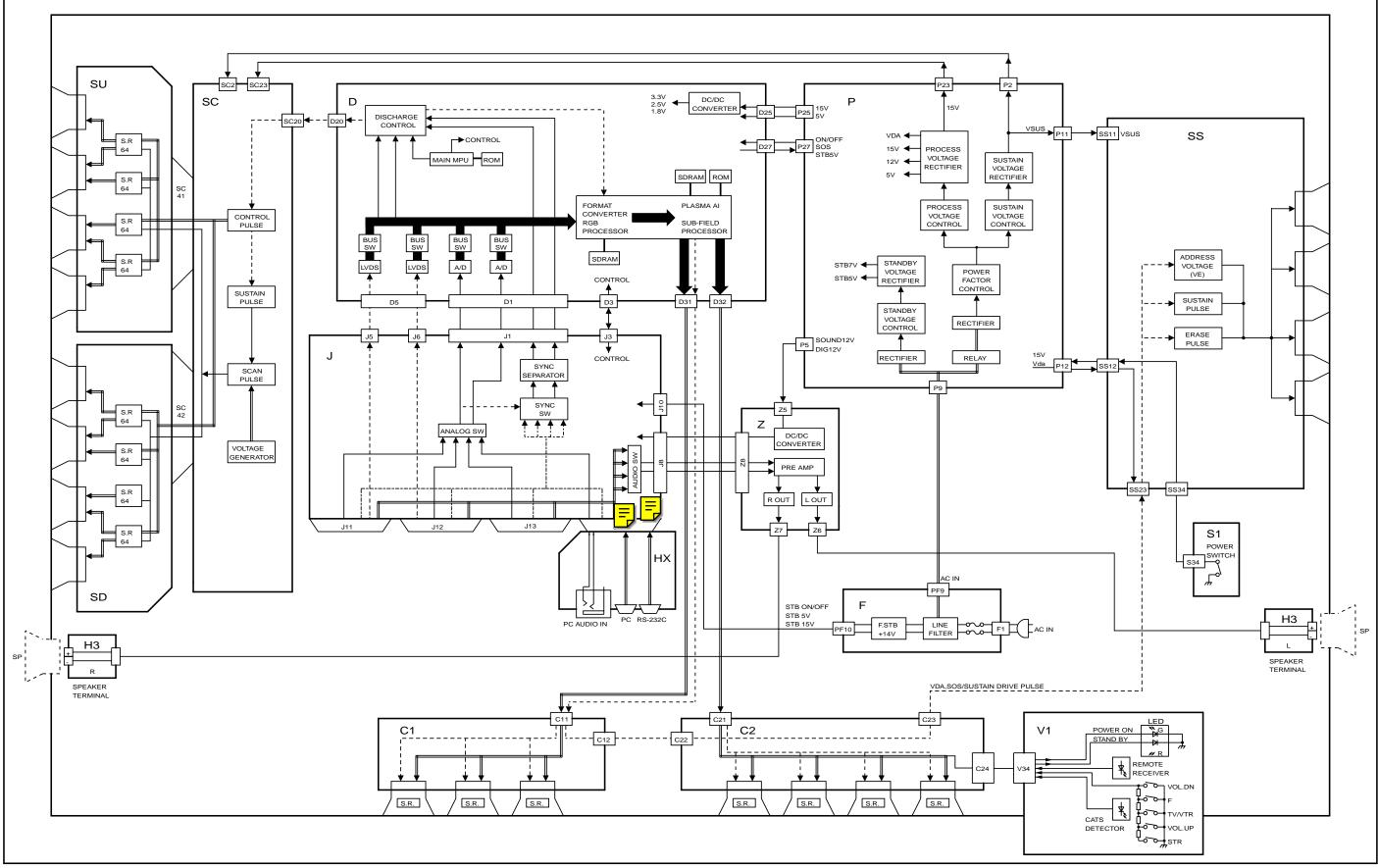




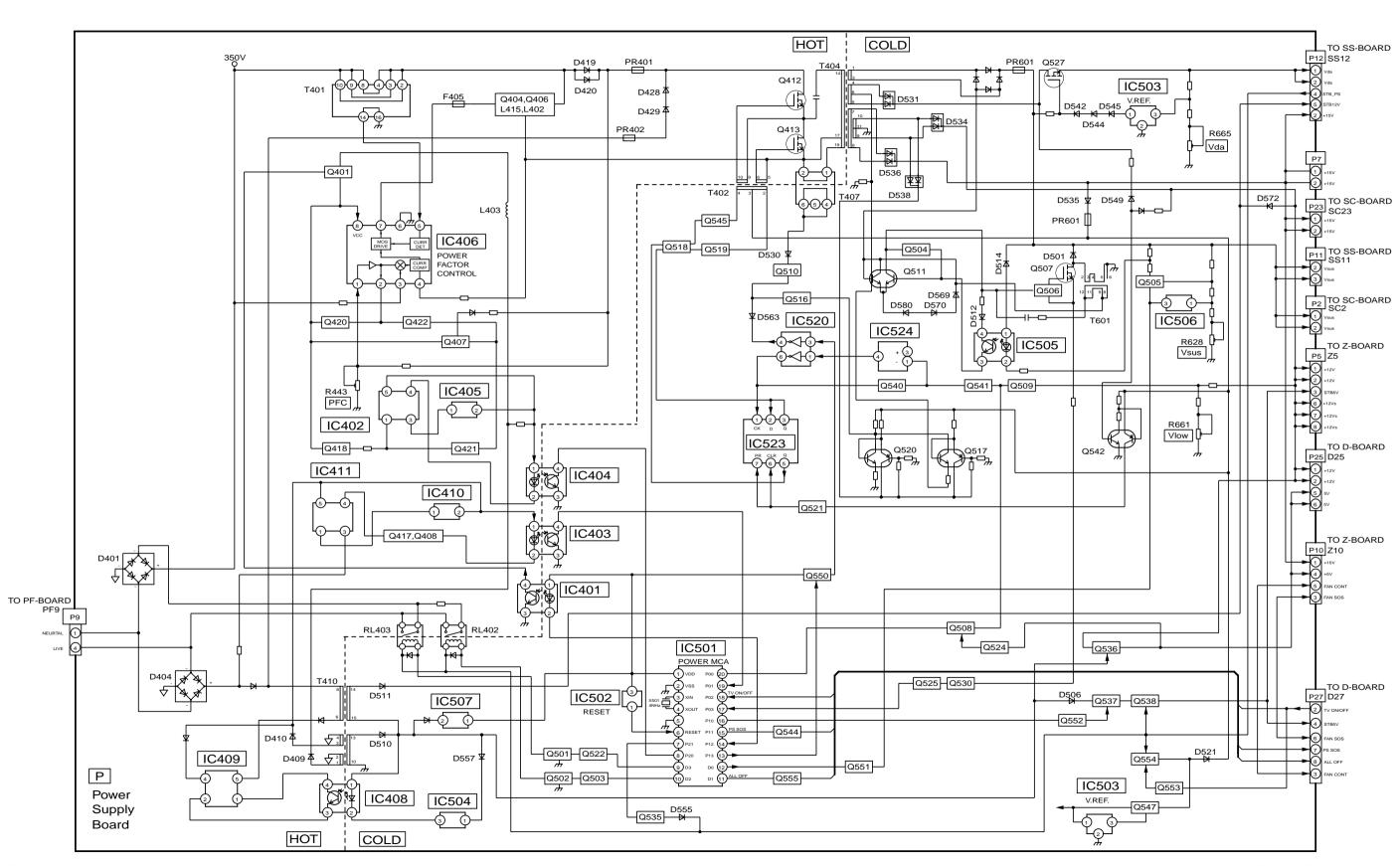
	INPUT	Equipment	Setting	Alignment menu	Procedure
1				PANEL W/B G Drive PANEL W/B B Drive R Drive	5) Increase same steps of R, G and B Drive to set largest level of 3 color drive to "FC".
2			White balance:	PANEL W/B R,G,B Drive	1) Change white balance to "Normal".  2) Repeat procedure 1) to 5) of Cool mode.
3			White balance:	PANEL W/B R,G,B Drive	1) Change white balance to "Warm".  2) Repeat procedure 1) to 5) of Cool mode.
4					1) Change color templature to "Cool".

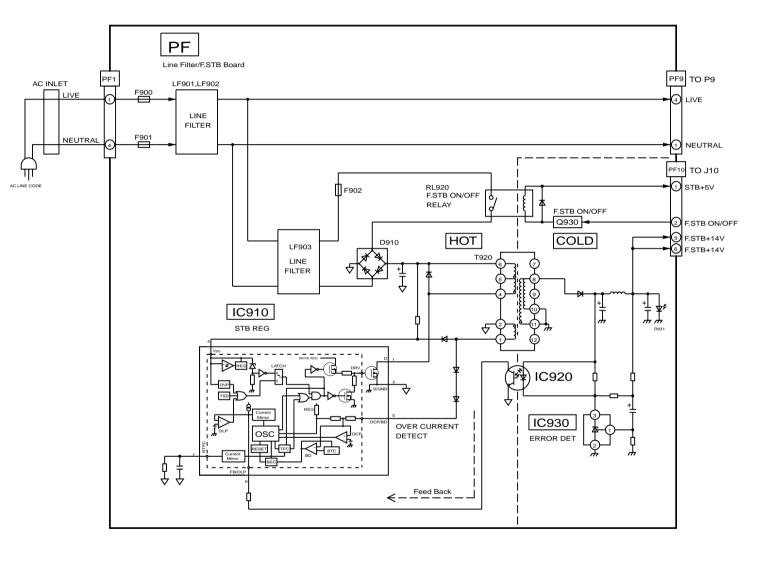
	INPUT	Equipment	Setting	Alignment menu	Procedure
5			Picture: Normal Aspect: 16:9		Write down each color temaparature of R,G,B drive and Cut off data as follows.
	RGB Gray Scale Pattern  High light 75%  Low light 15%		White balance: Cool Normal Warm		White Balance Cool Normal Warm R Drive G Drive B Drive R Cut off G Cut off B Cut off
6	DVI Gray Scale Pattern  High light 75%  – Low light 15%		Picture: Normal Aspect: 16:9 White balance: Cool Normal Warm		1) Write down each color temaparature of R,G,B drive and Cut off data as follows.    White

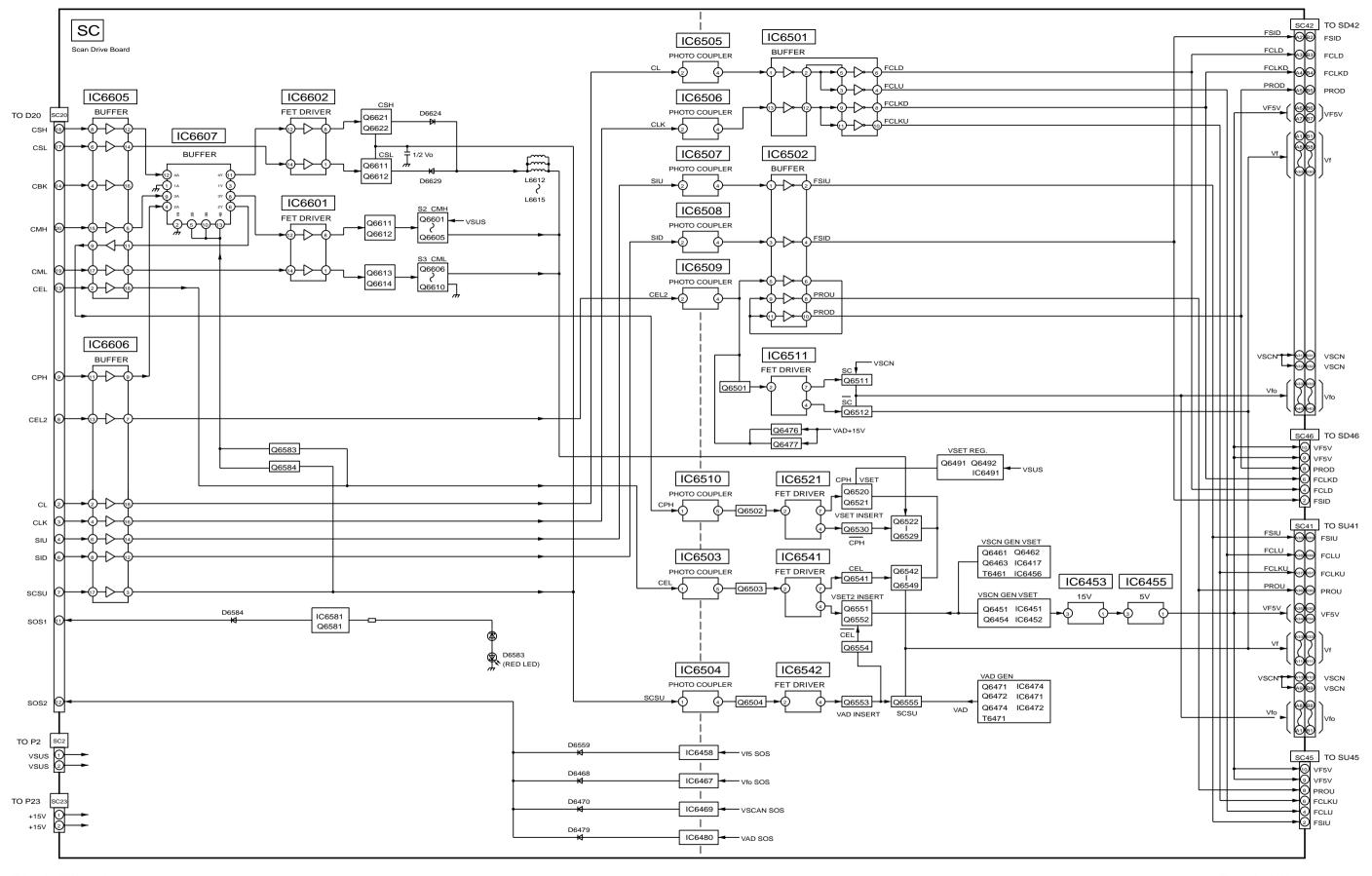




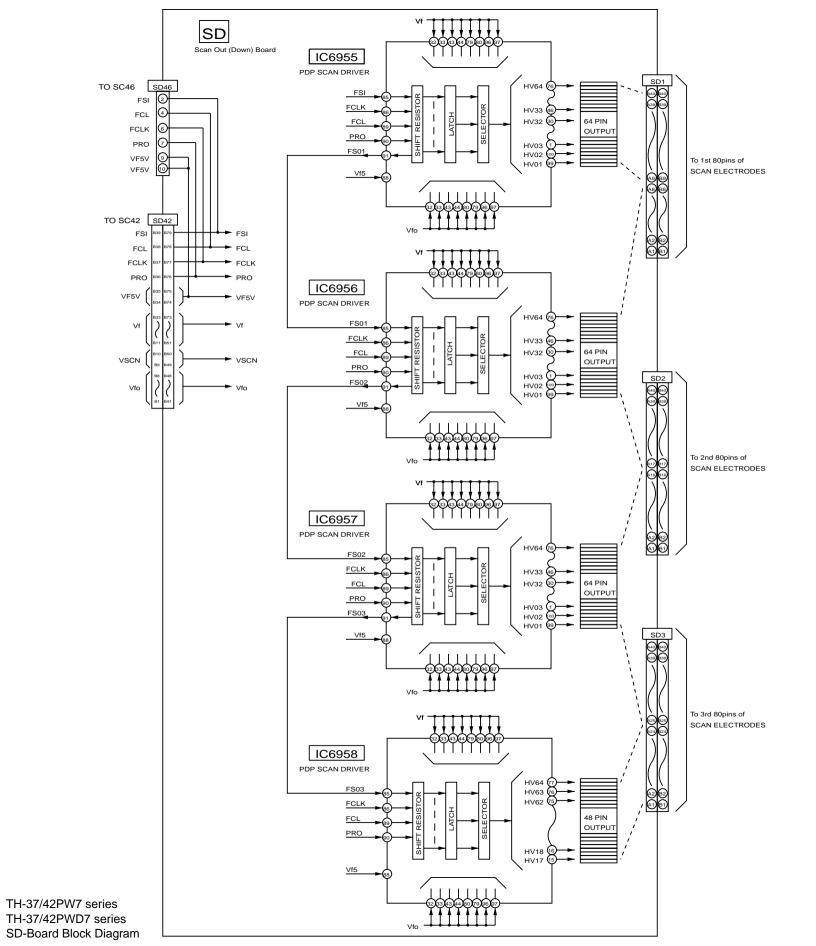
TH-37/42PW7 series TH-37/42PWD7 series Main Block Diagram TH-37/42PW7 series TH-37/42PWD7 series Main Block Diagram

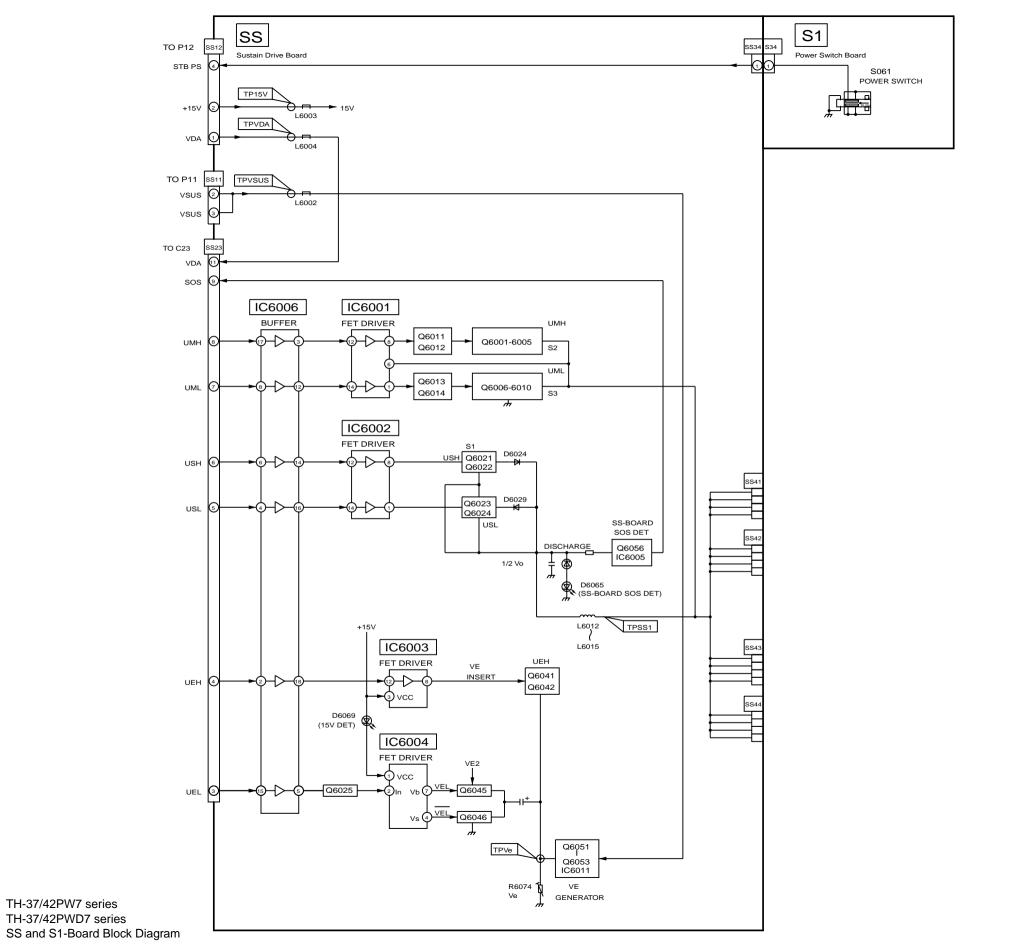


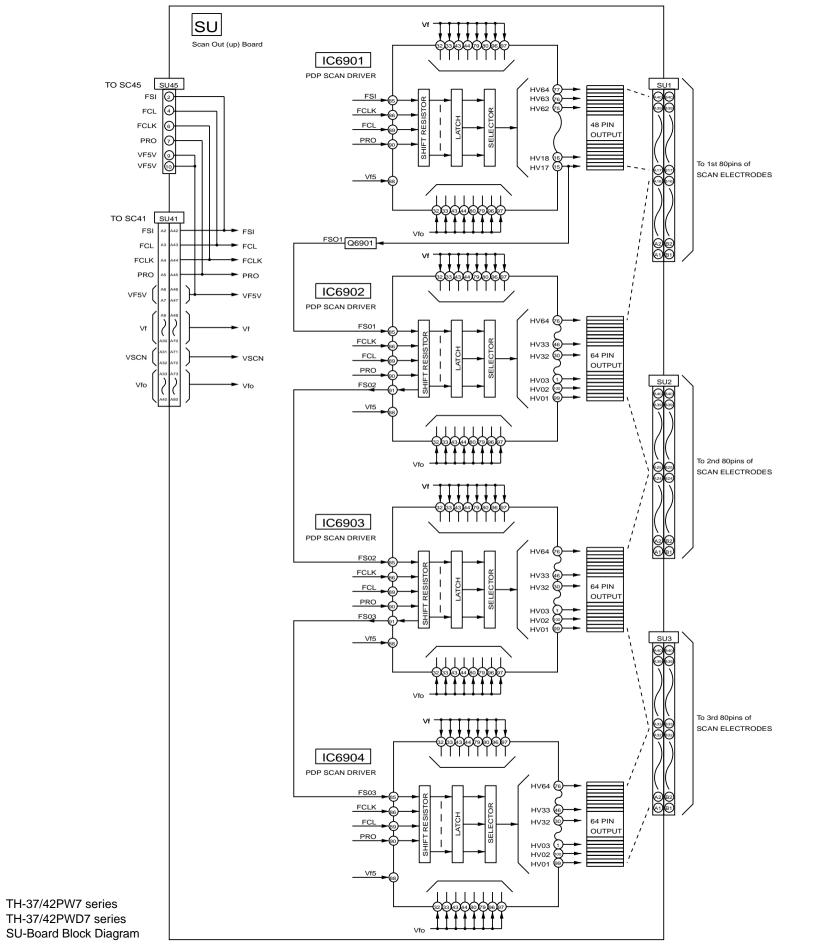


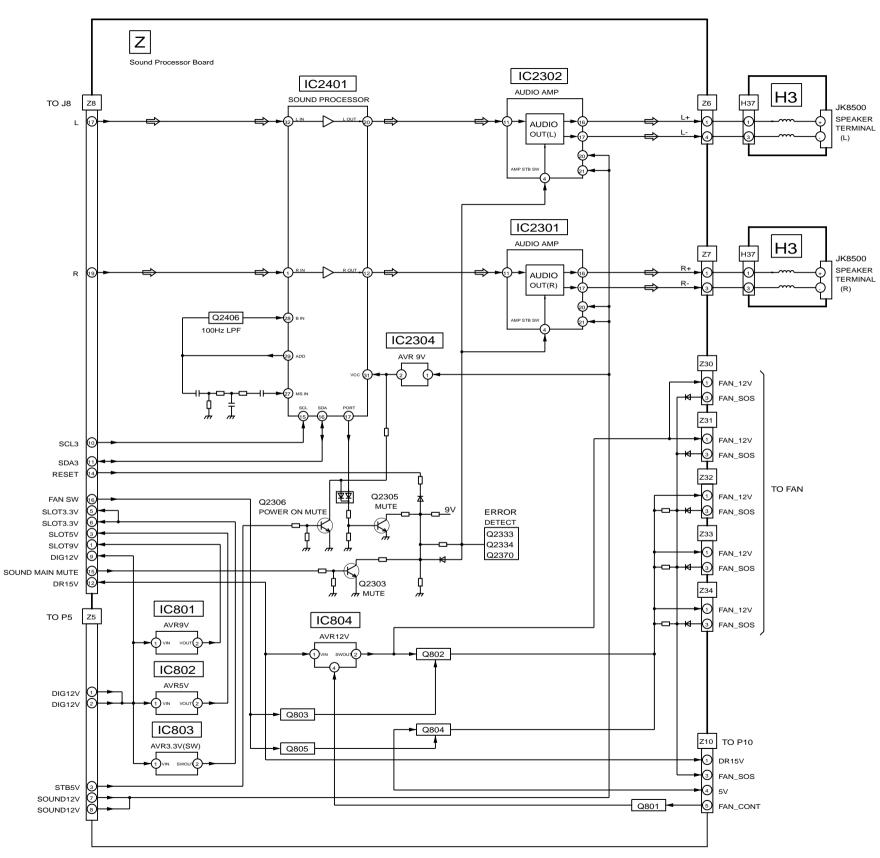


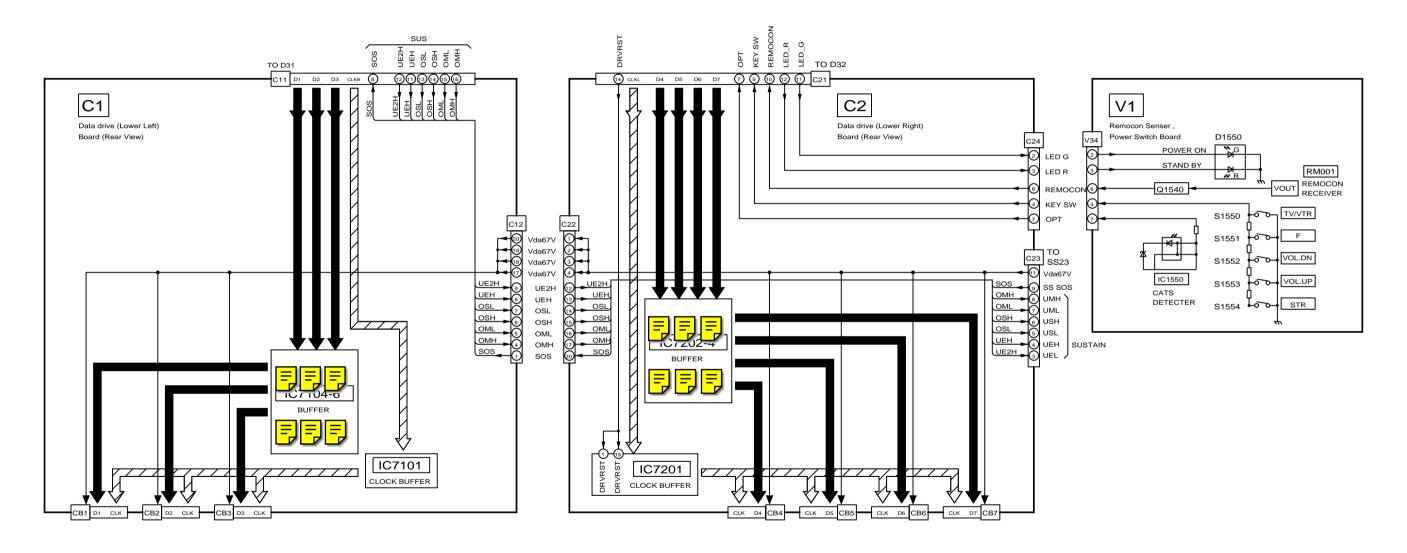
TH-37/42PW7 series TH-37/42PWD7 series SC-Board Block Diagram TH-37/42PW7 series TH-37/42PWD7 series SC-Board Block Diagram

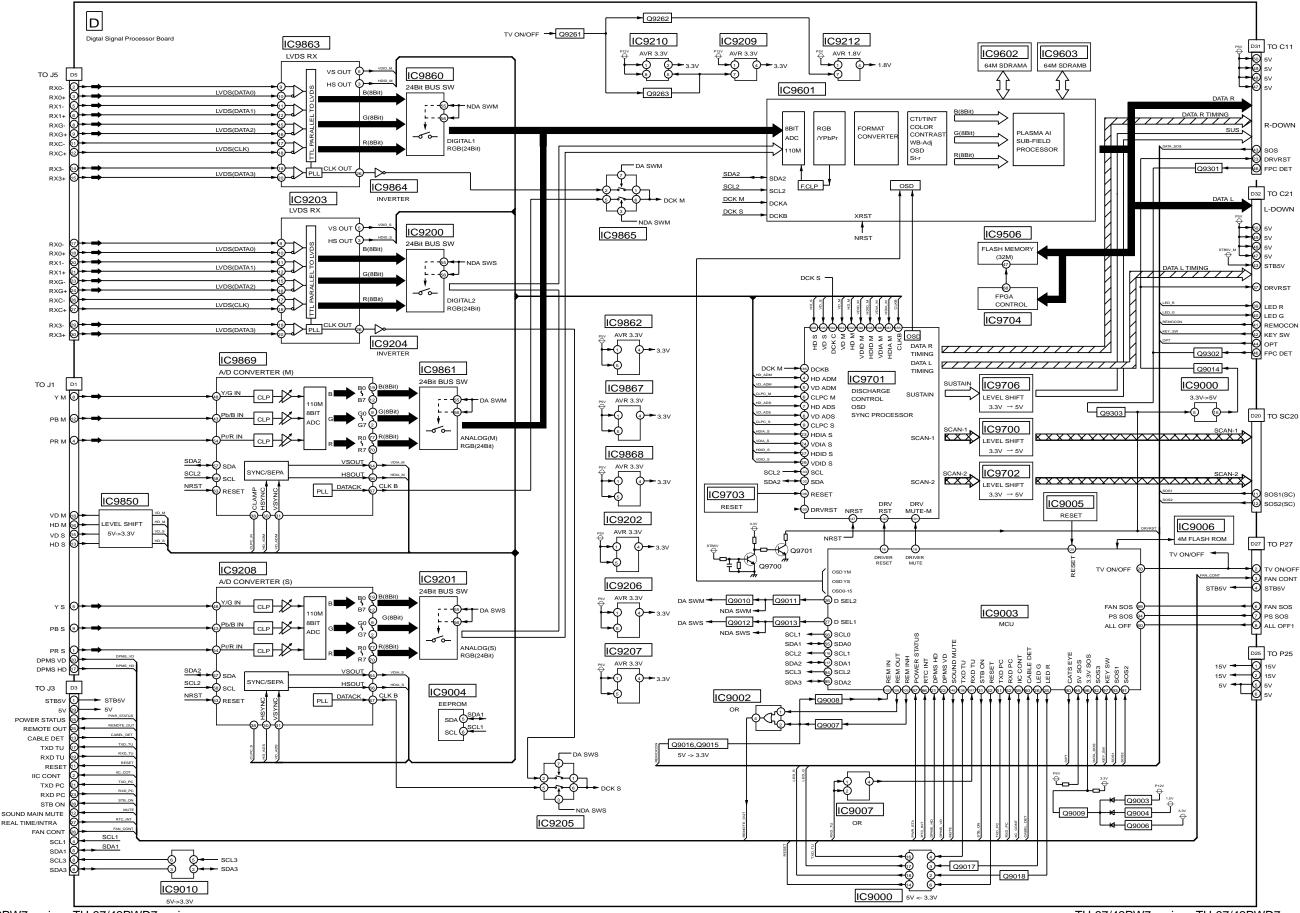


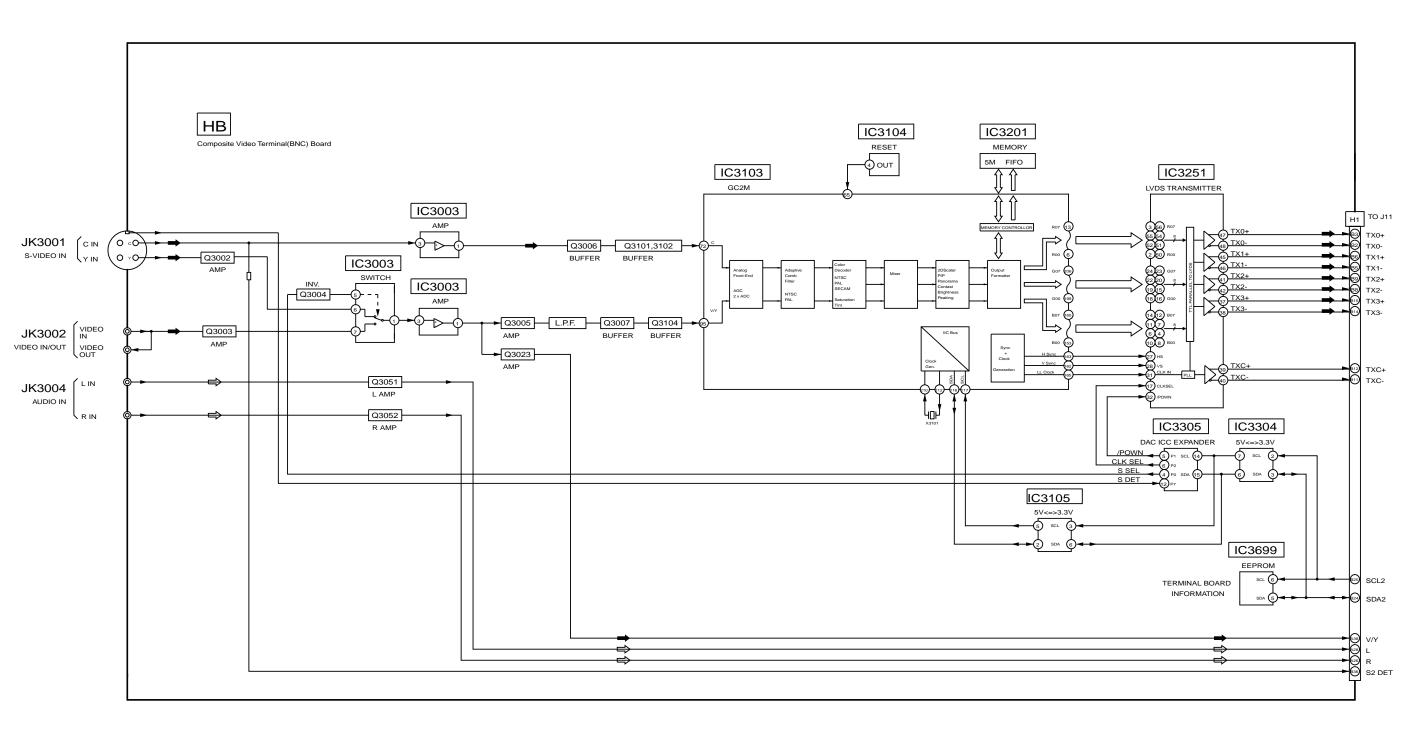


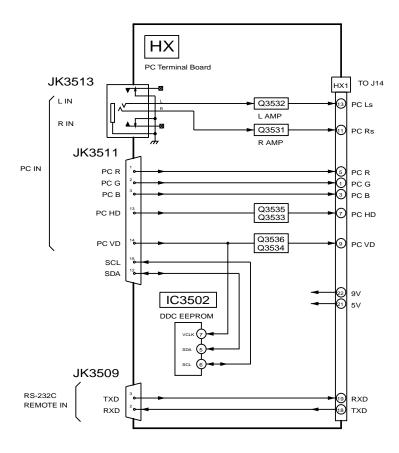












# 15 Schematic Diagrams

## 15.1. Schematic Diagram Notes

Note									
1.									
	All resistors are cabon 1/4W resistor, unless marked as follows:								
	Unit of resistance is OHM [ $\Omega$ ] (K=1,000, M=1,0								
	: Nonflammable	$\boxtimes$	: Metal Oxide						
	∴ : Solid		: Metal Film						
_	: Wire Wound	$\otimes$	: Fuse <b>:</b>						
2.	•								
	All capacitors are ceramic 50V capacitor, unless marked as follows:								
	Unit of capacitance is μF, unless otherwise no		EL						
	⊗ : Temperature Compensation	_ <del>+</del>   - - - - - - - - - - - - - - - - - -	: Electrolytic						
	M : Polyester	NP H	: Bipolar						
		①							
_	⊠ : Polypropylene	$\bigcirc$	: Z-Type						
3.	Coil								
4	Unit of inductance is $\mu F$ , unless otherwise note Test Point	ea.							
4.	_								
5	$\bigcirc$ : Test Point position Earth Symbol								
5.	# : Chassis Earth (Cold)	1	: Line Earth (Hot)						
6	Voltage Measurement	ightharpoons	. Line Latti (110t)						
0.	Voltage is measured by a DC voltmeter.								
	Conditions of the measurement are the following	na.							
	Power Source	AC120-240V 50/60Hz							
	Receiving Signal		•						
	All customer's controls								
7	Number in red circle indicates waveform nemb		Maximum pooliiono						
•	(See waveform pattern table.)								
8	When arrow mark ( / ) is found, connection is	easily fou	nd from the direction of arrow						
٥.	This are than ( ) is realia, controller to	Judiny 100	on an outon of allow						

**Important Safety Notice** 

TH-37/42PW7 SERIES TH-37/42PWD7 SERIES Schematic Diagram Notes

#### Remarks:

1. The Power Circuit contains a circuit area which uses a separate power supply to isolate the earth connection.

The circuit is defined by HOT and COLD indications in the schematic diagram. Take the follwing precautions.

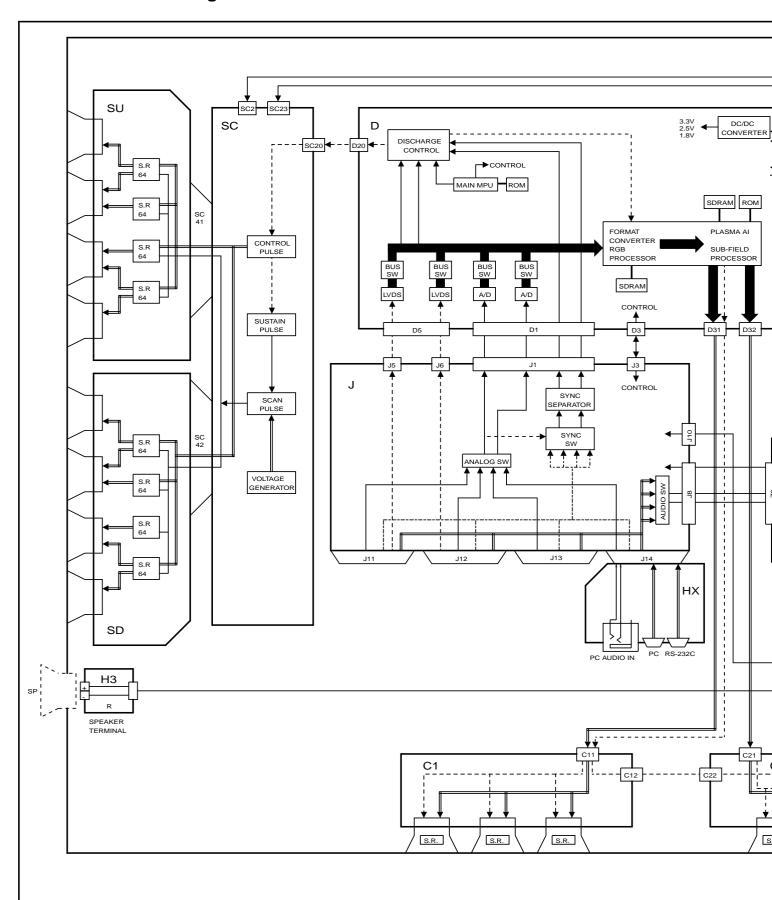
All circuits, except the Power Circuit, are cold.

**Precautions** 

- a. Do not touch the hot part or the hot and cold parts at the same time or you may be shocked.
- b. Do not short- circuit the hot and cold circuits or a fuse may blow and parts may break.
- c. Do not connect an instrument, such as an oscilloscope, to the hot and cold circuits simultaneously or a fuse may blow.
   Connect the earth of instruments to the earth connection of the circuit being
- d. Make sure to disconnect the power plug before removing the chassis.
- 2. Following diodes are interchangeable.

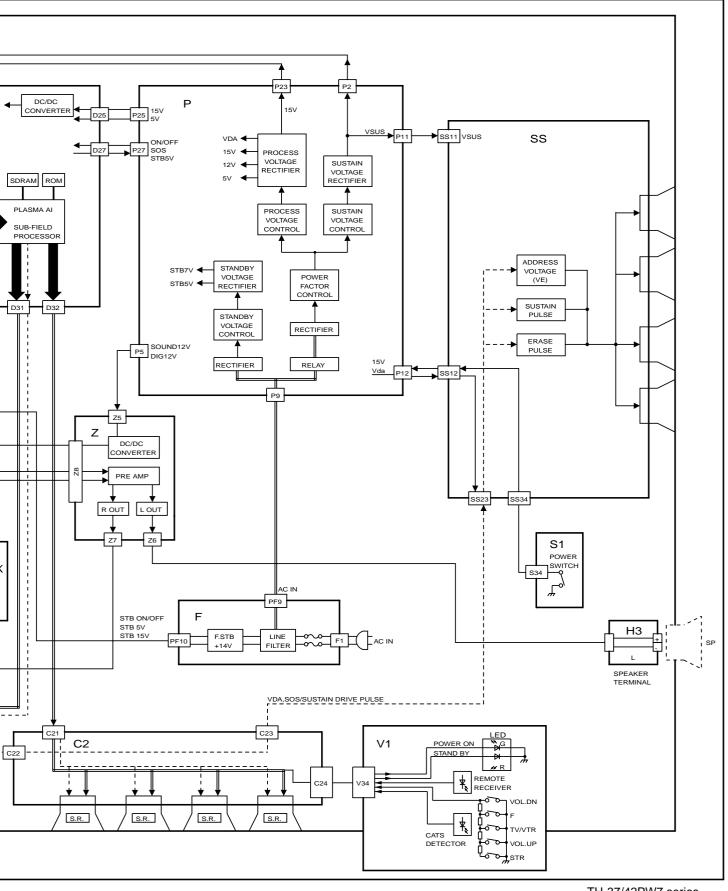
MA150- MA162 (Replacement part)

## 15.2. Main Block Diagram



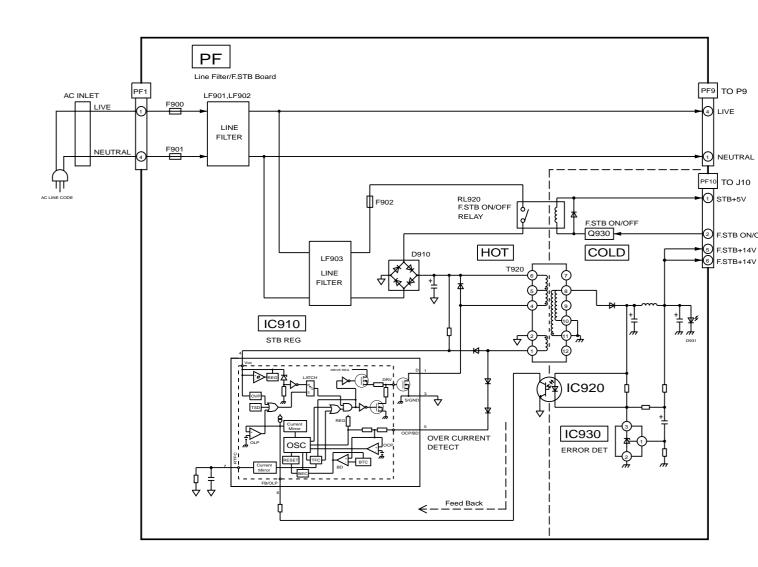
TH-37/42PW7 series TH-37/42PWD7 series Main Block Diagram



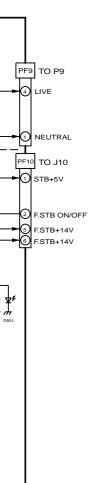


TH-37/42PW7 series TH-37/42PWD7 series Main Block Diagram

## 15.3. PF-Board Block Diagram

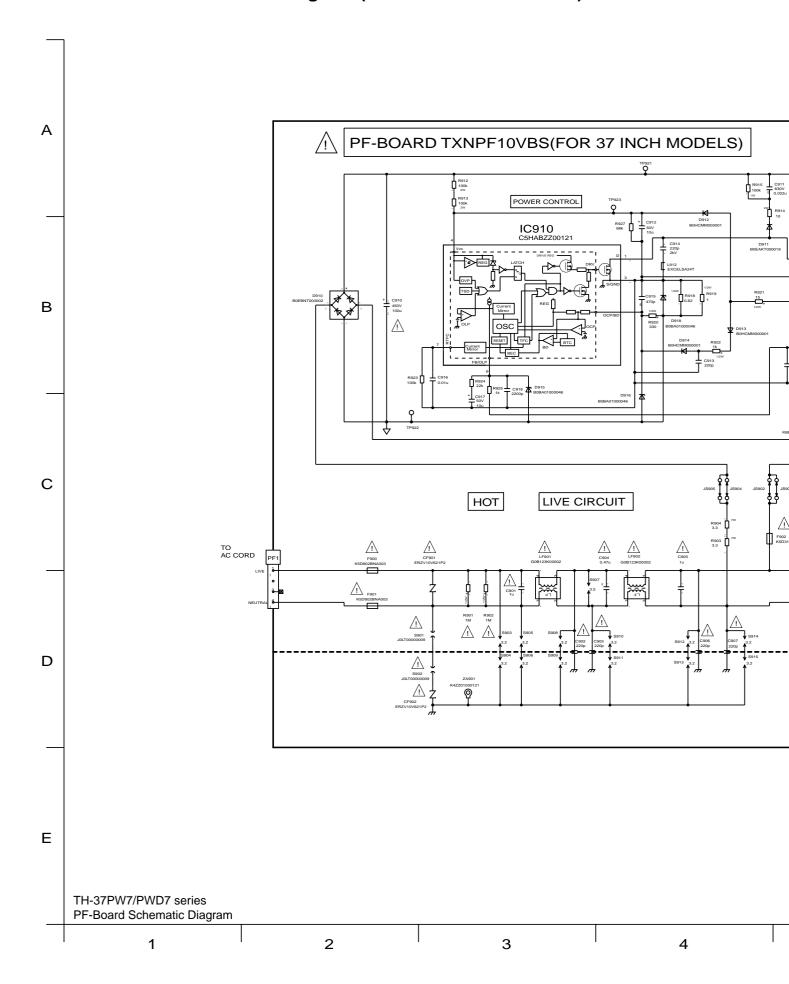


TH-37/42PW7 series TH-37/42PWD7 series PF-Board Block Diagram

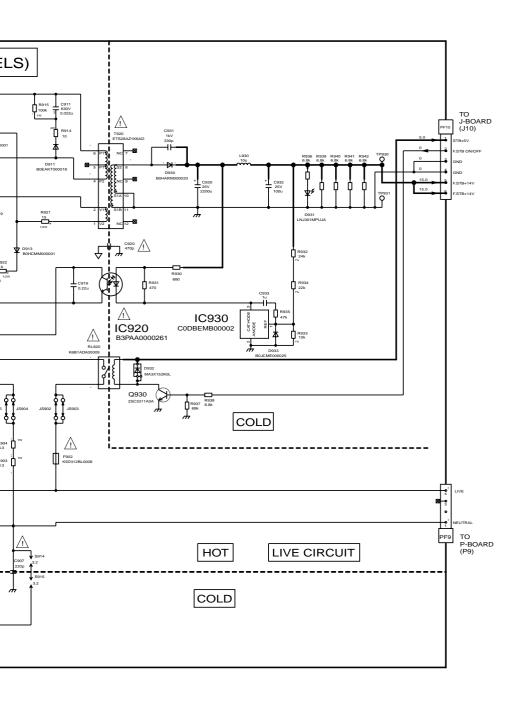


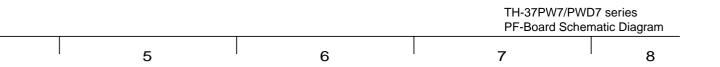
TH-37/42PW7 series TH-37/42PWD7 series PF-Board Block Diagram

## 15.4. PF-Board Schematic Diagram (TH-37PW7/PWD7 series)

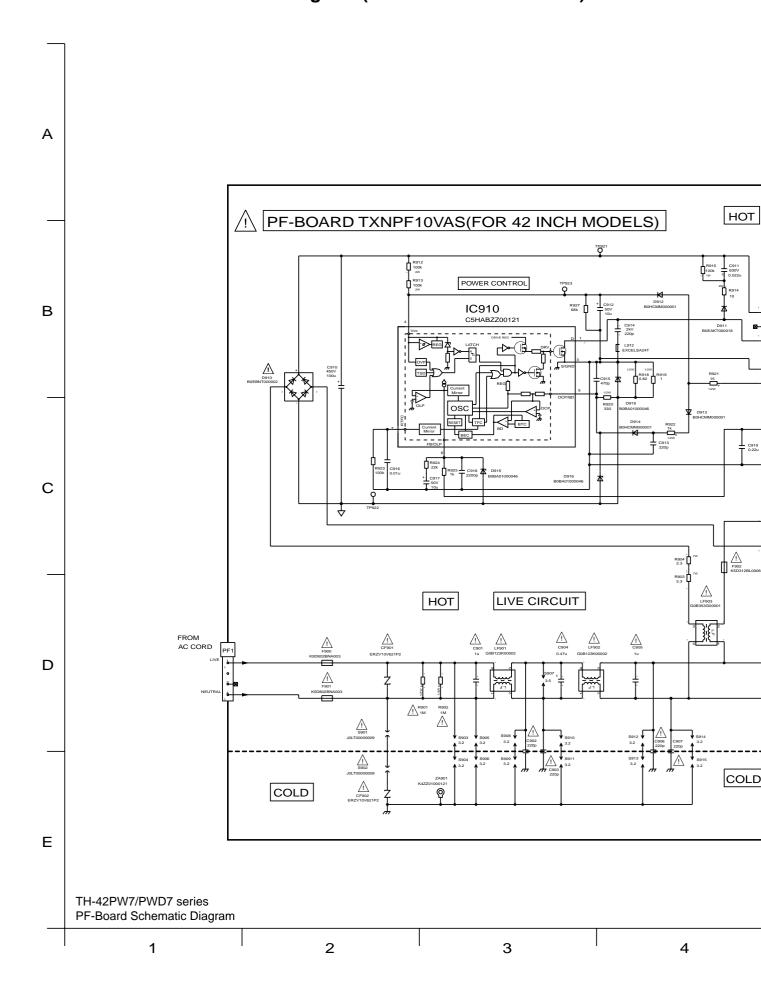




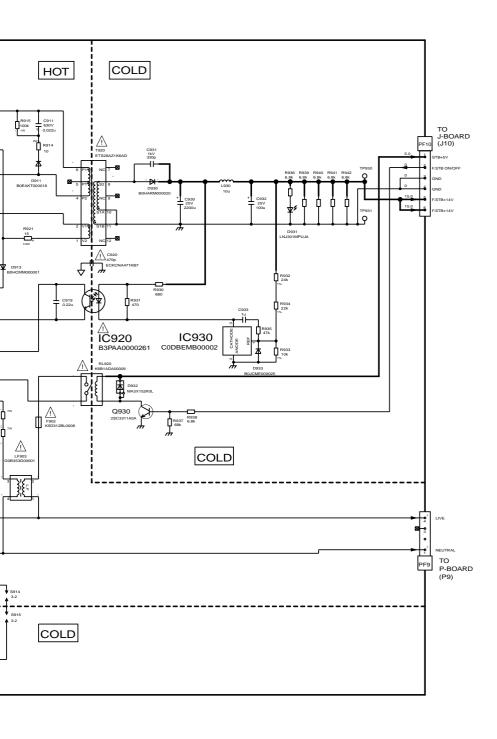


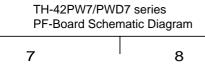


## 15.5. PF-Board Schematic Diagram (TH-42PW7/PWD7 series)





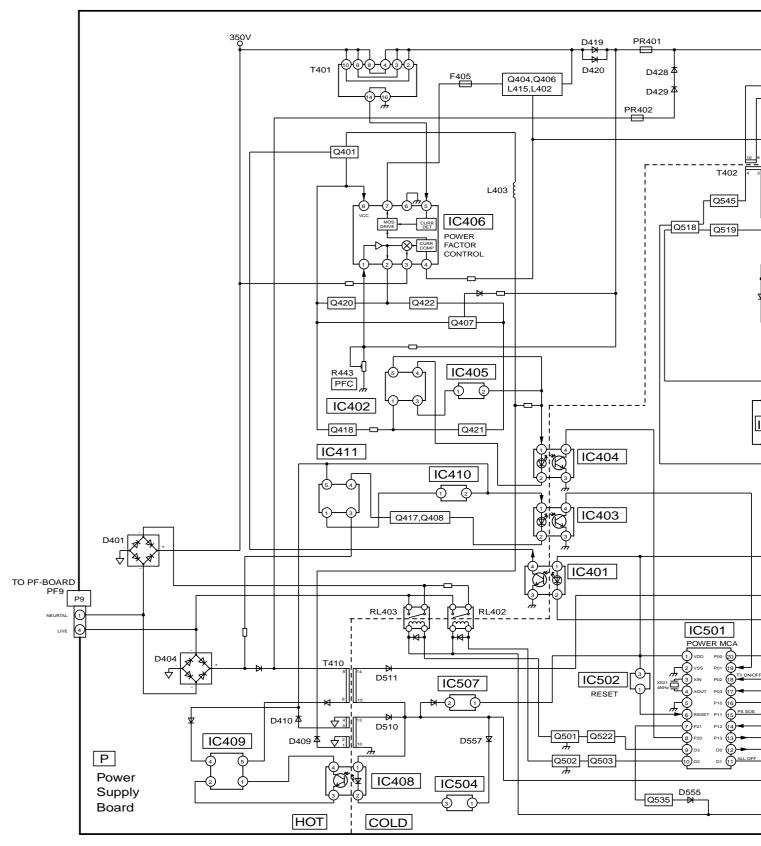




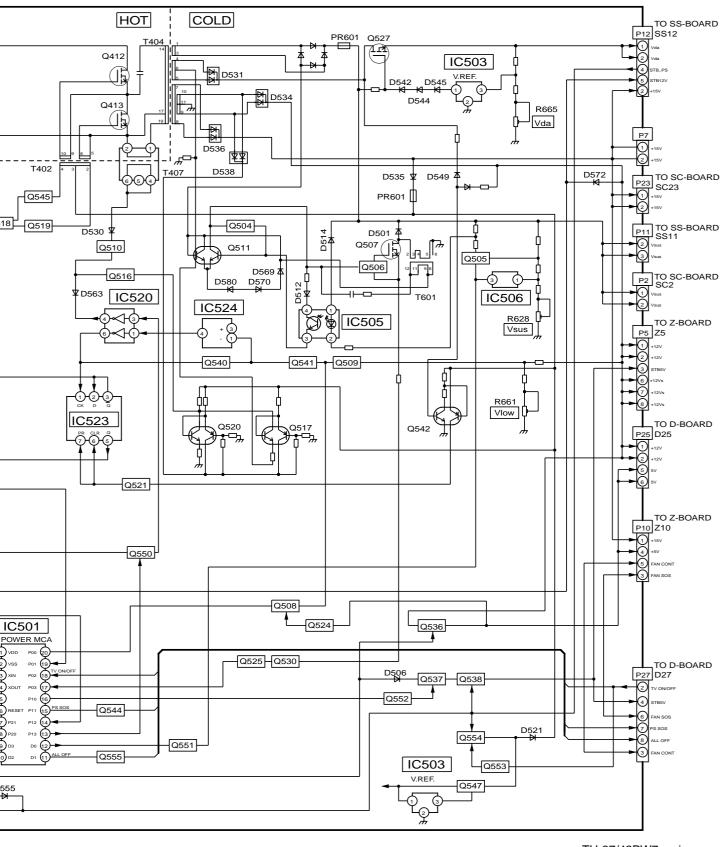
5

6

## 15.6. P-Board Block Diagram

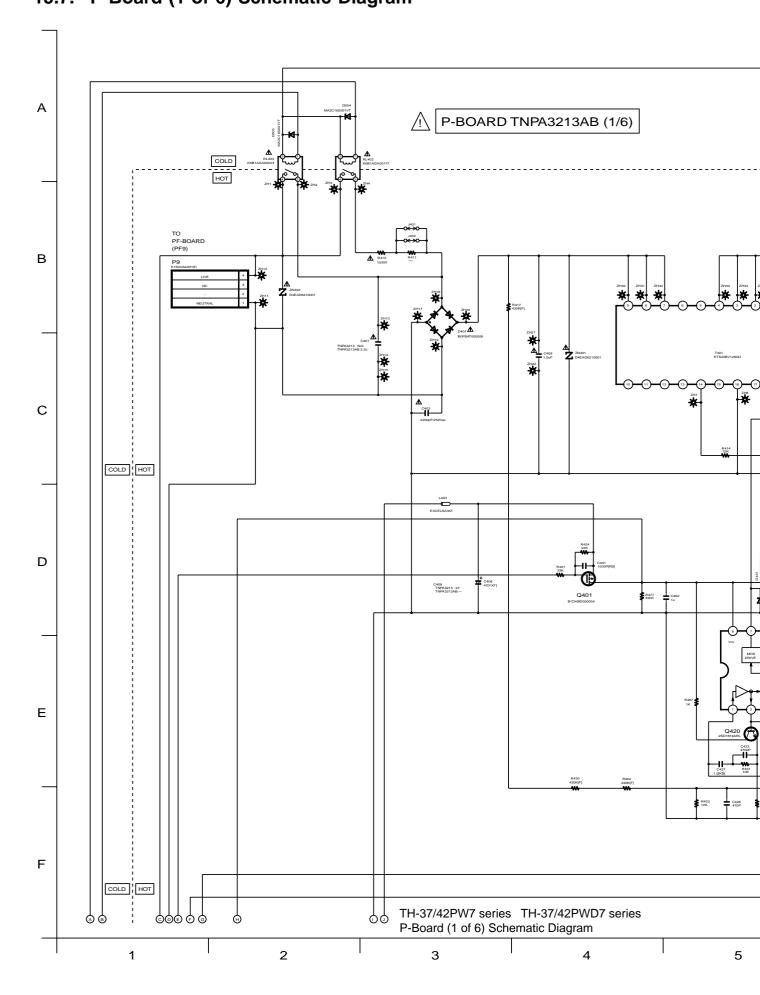


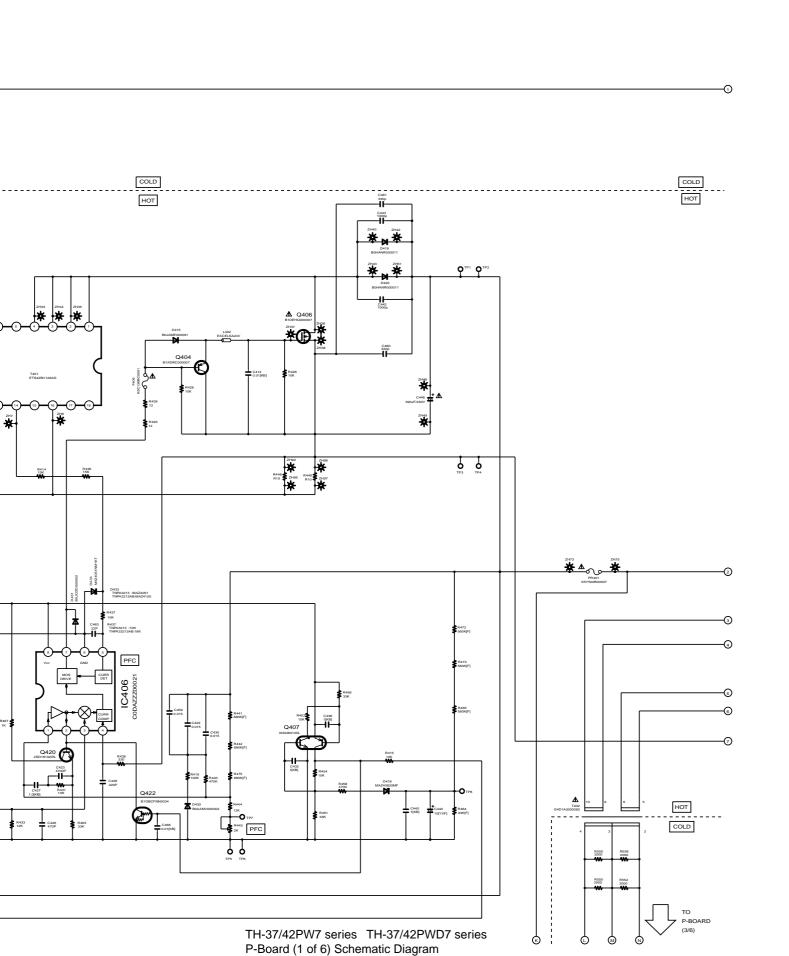
TH-37/42PW7 series TH-37/42PWD7 series P-Board Block Diagram



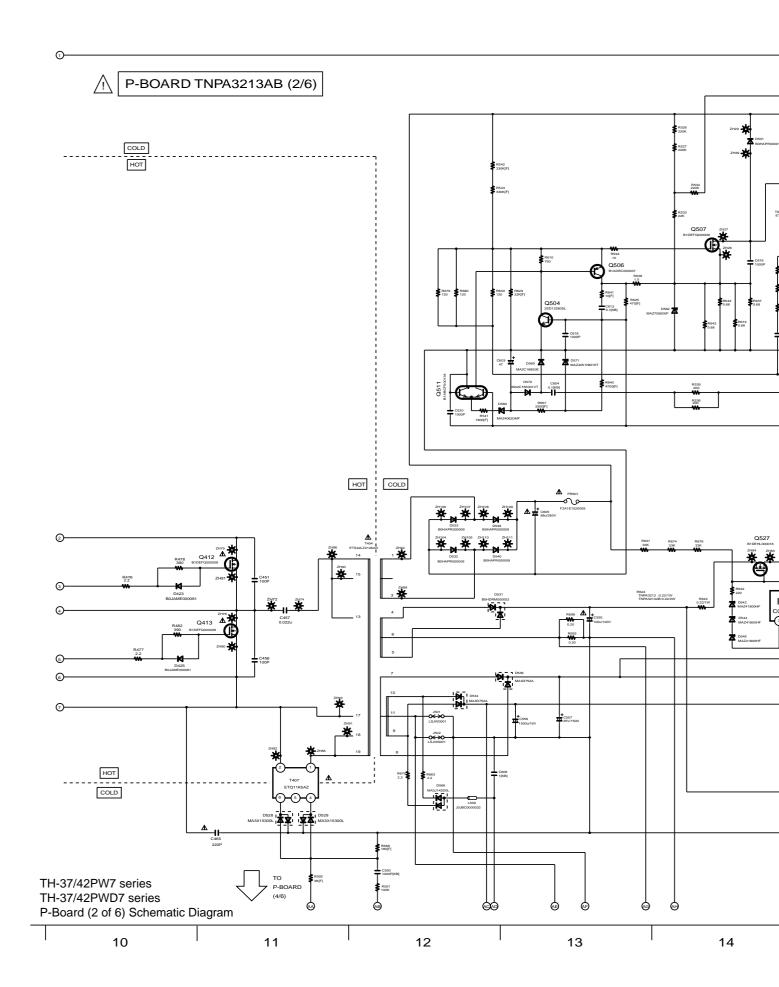
TH-37/42PW7 series TH-37/42PWD7 series P-Board Block Diagram

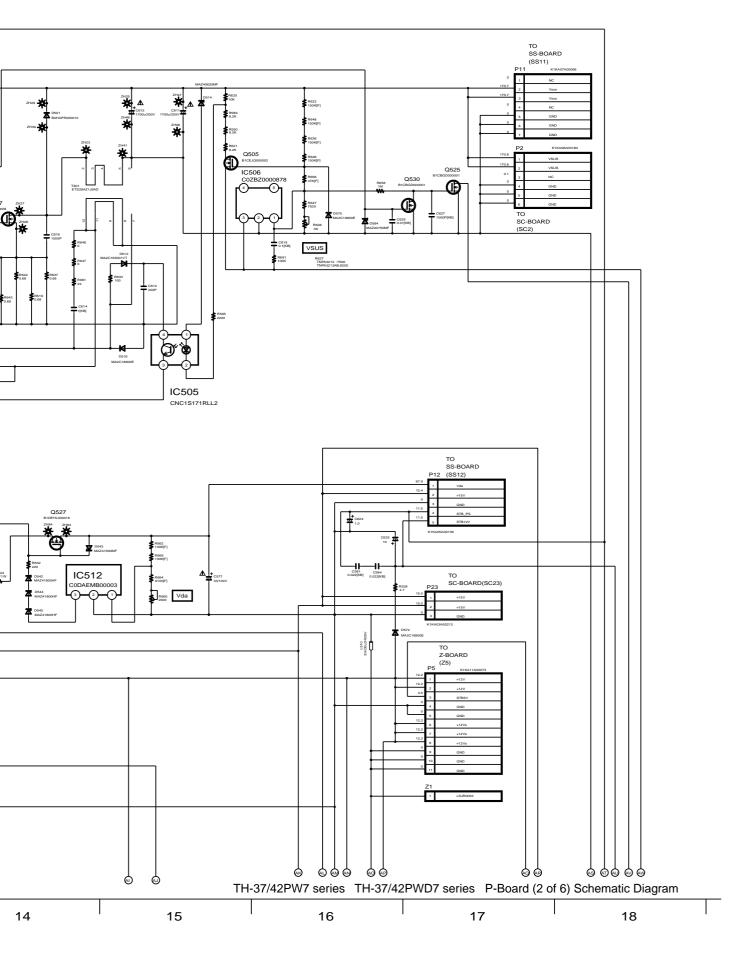
# 15.7. P-Board (1 of 6) Schematic Diagram



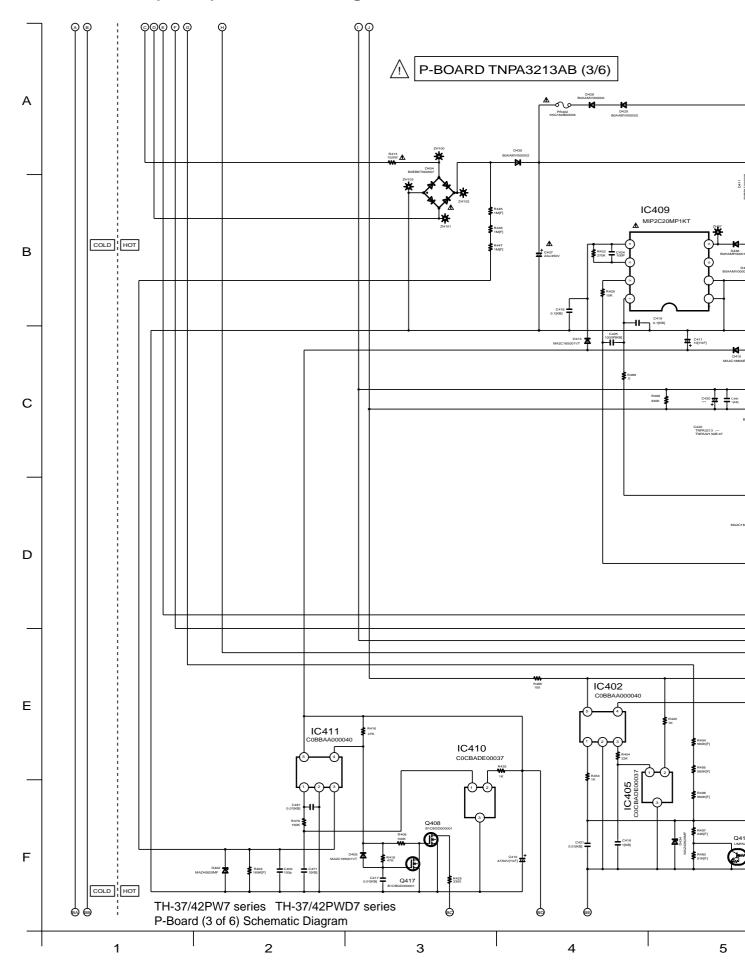


## 15.8. P-Board (2 of 6) Schematic Diagram

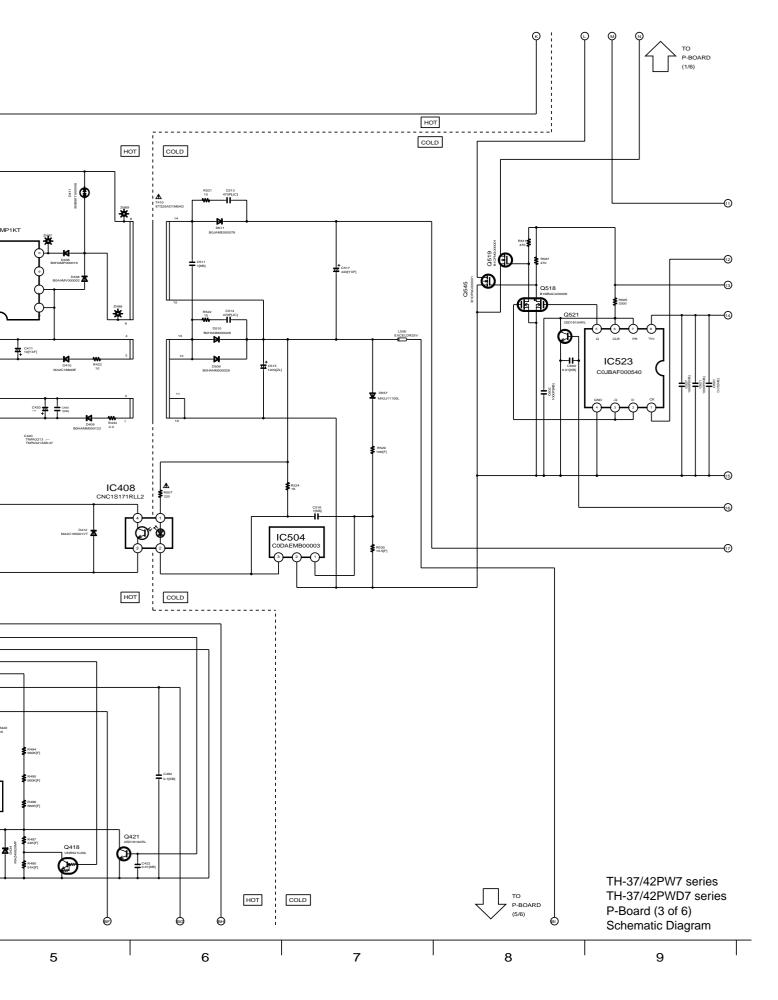




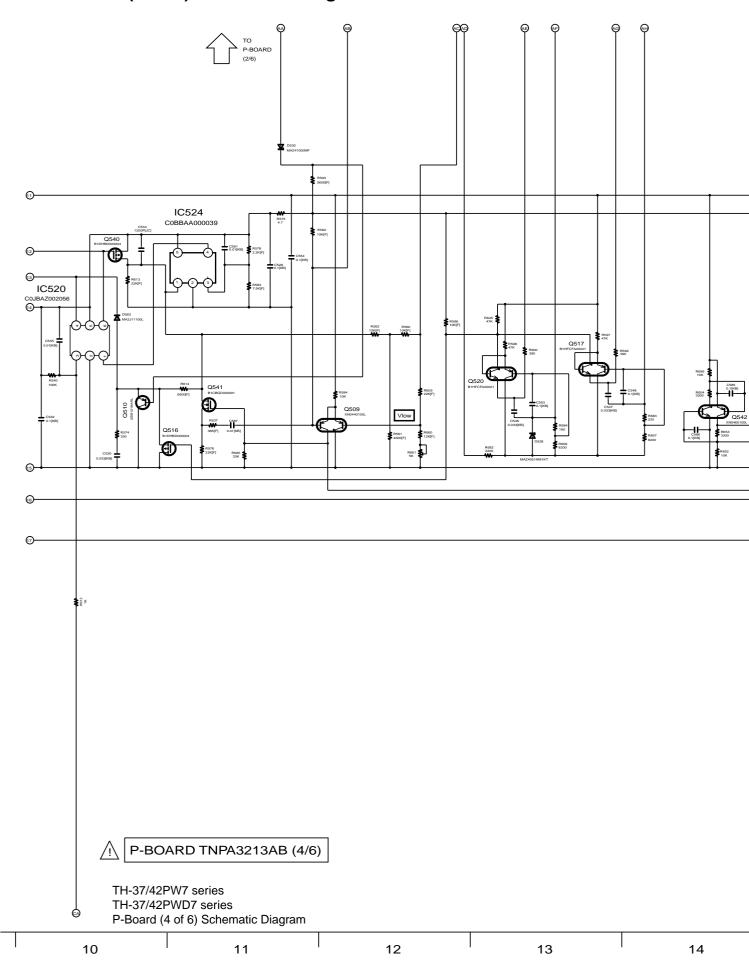
## 15.9. P-Board (3 of 6) Schematic Diagram

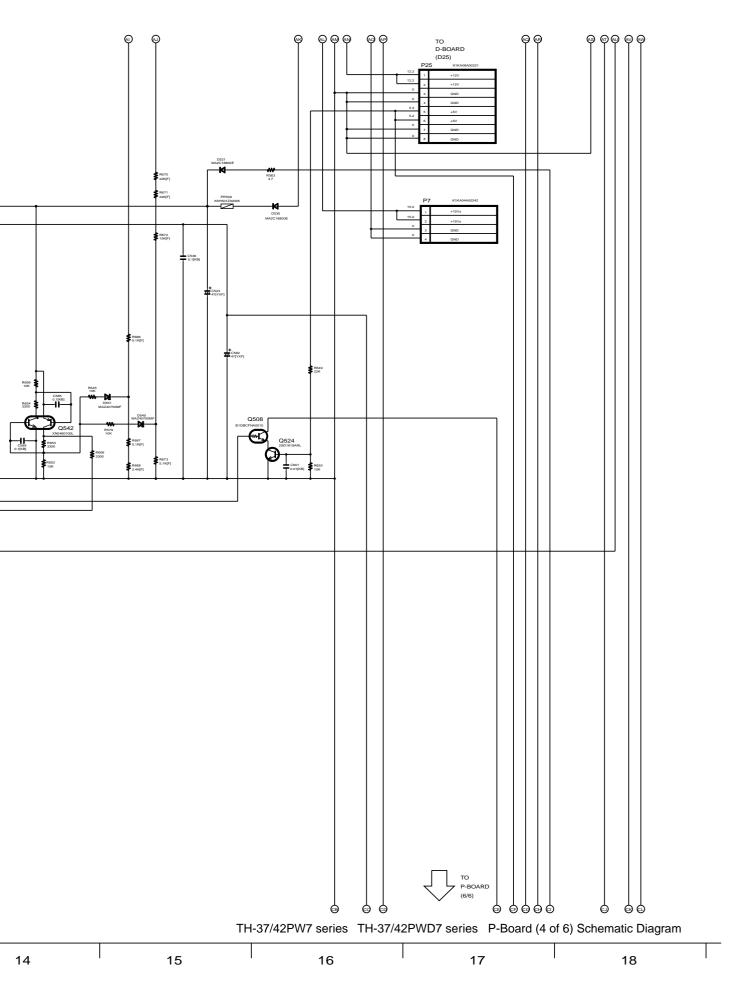




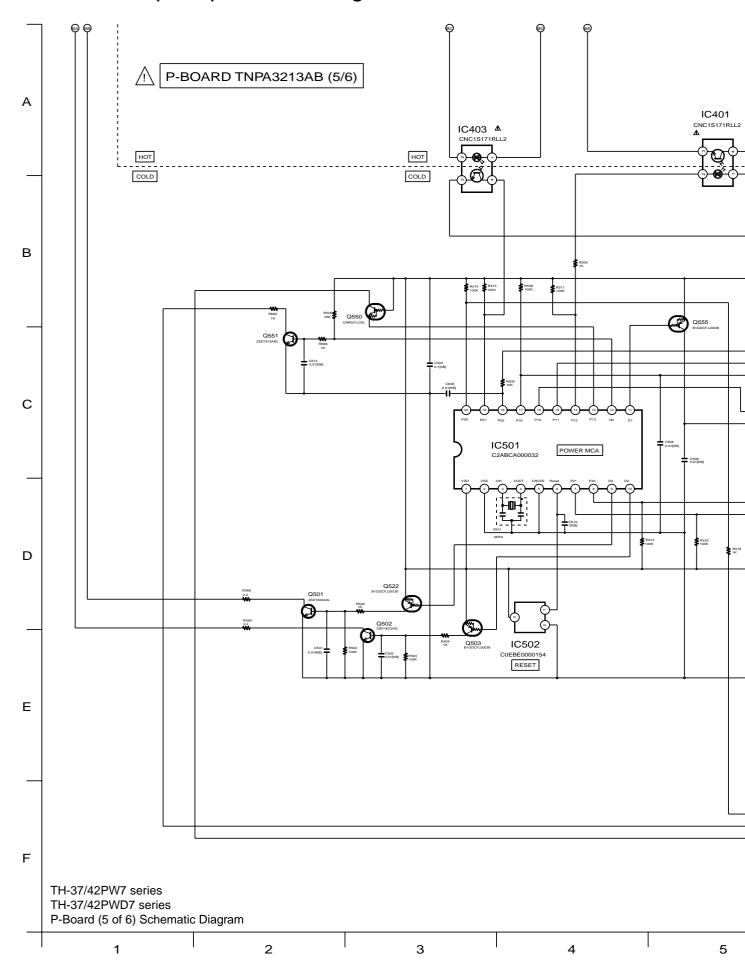


## 15.10. P-Board (4 of 6) Schematic Diagram

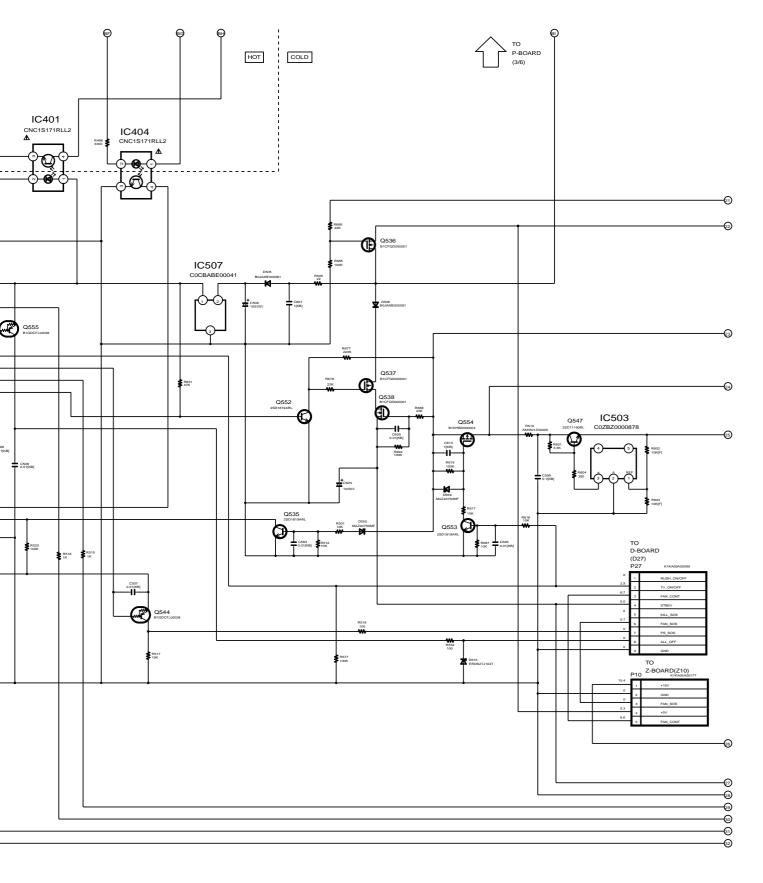




## 15.11. P-Board (5 of 6) Schematic Diagram

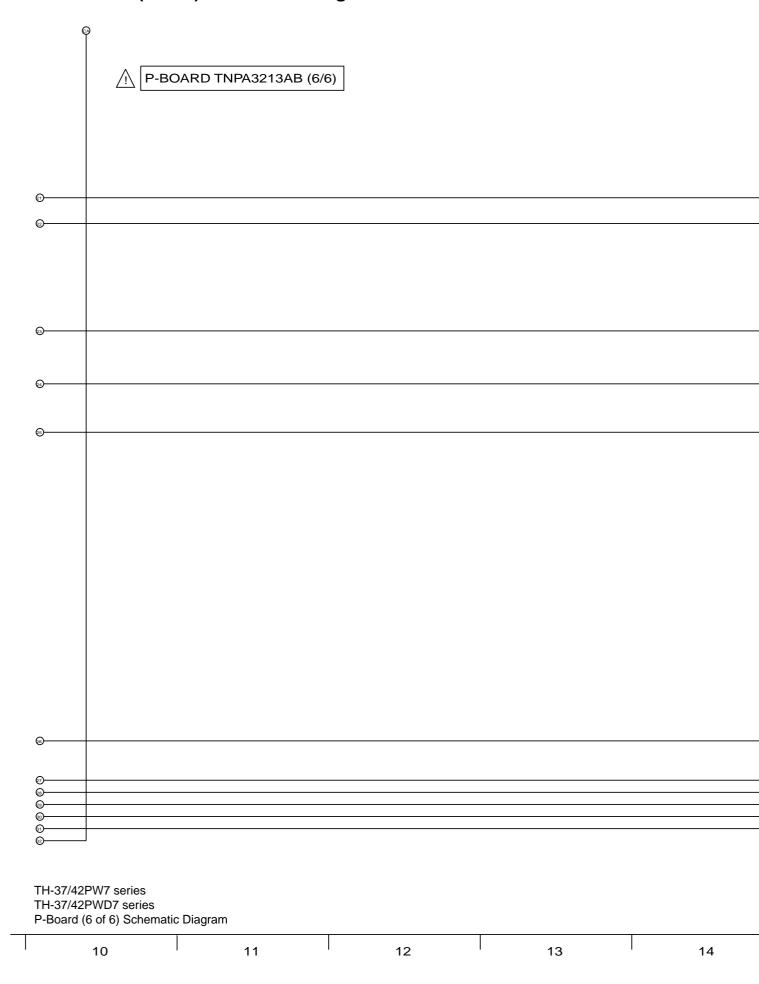




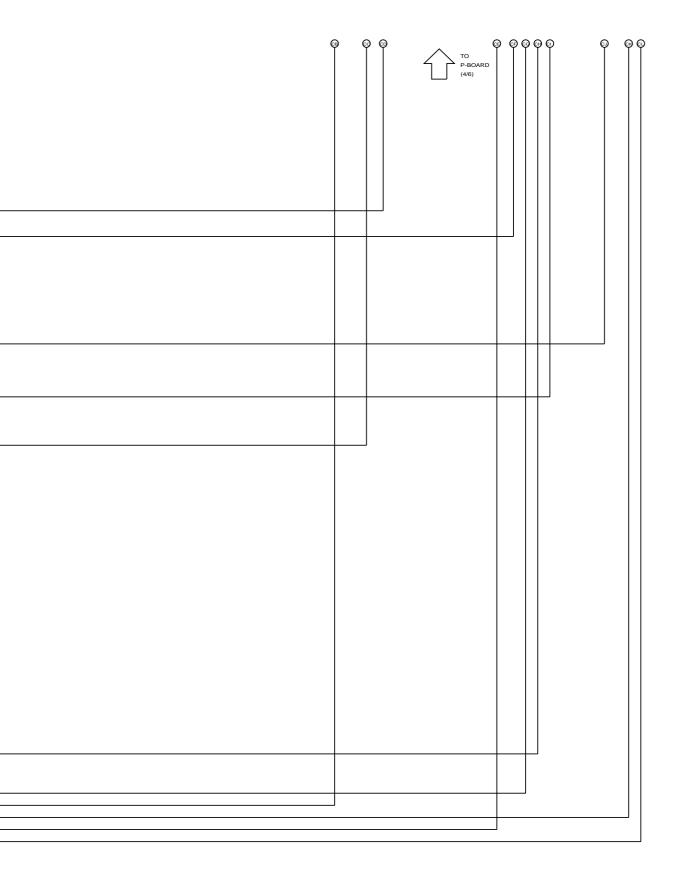




# 15.12. P-Board (6 of 6) Schematic Diagram



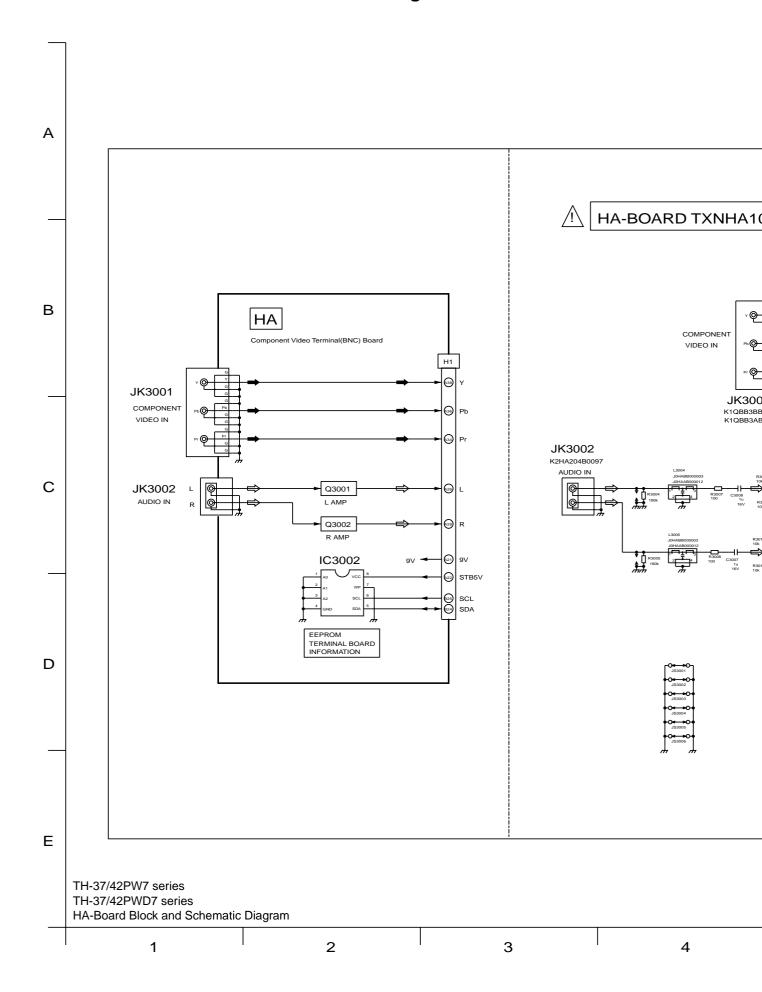


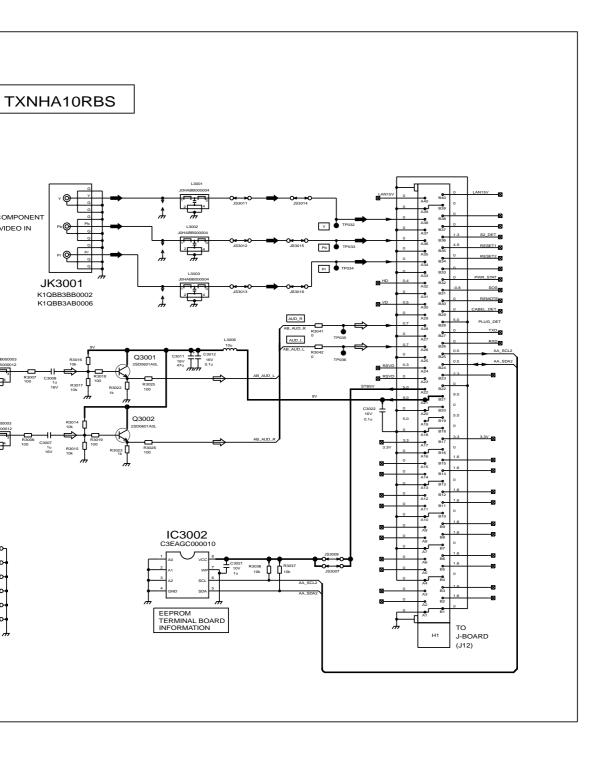


TH-37/42PW7 series TH-37/42PWD7 series P-Board (6 of 6) Schematic Diagram

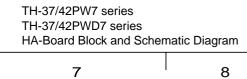
14 15 16 17 18

# 15.13. HA-Board Block and Schematic Diagram





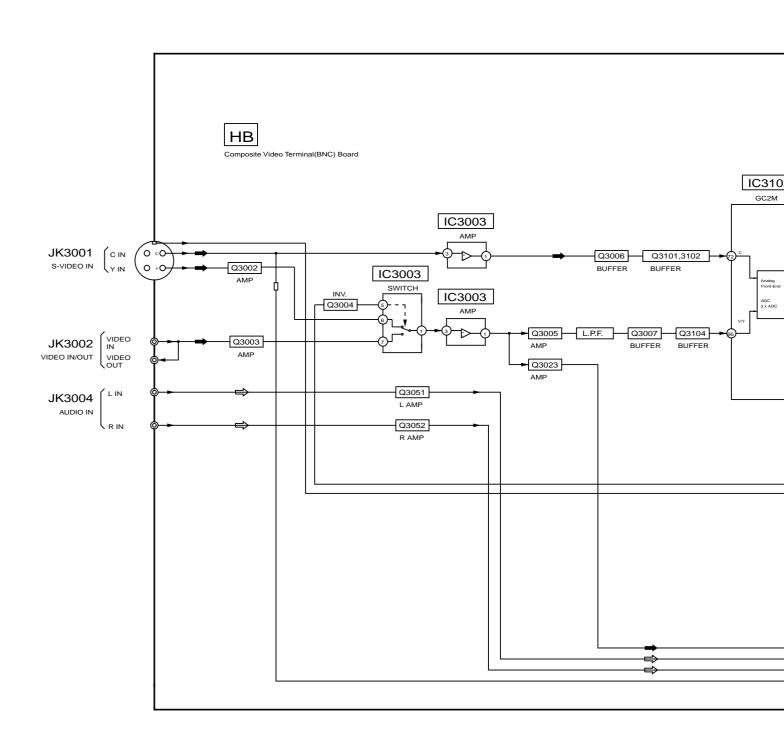
6



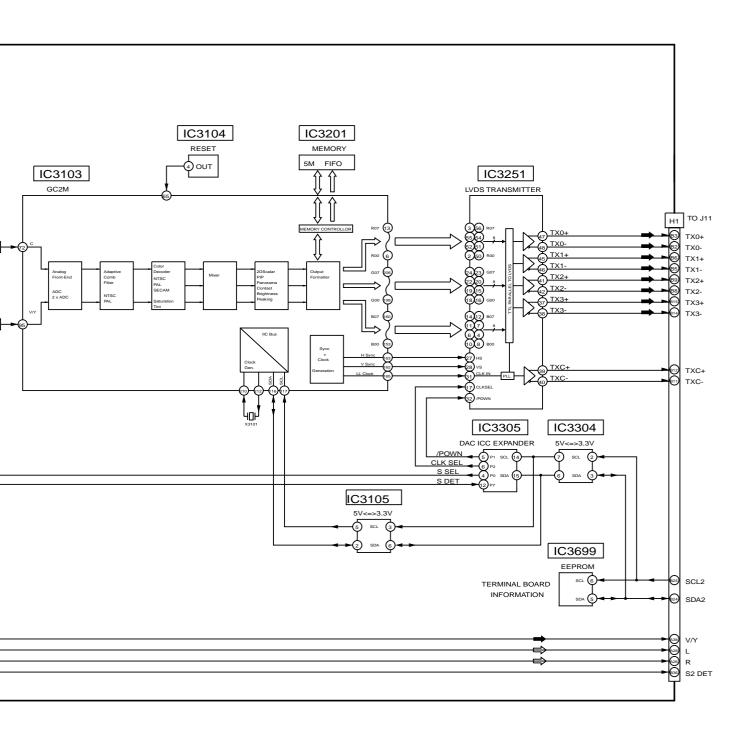
\_\_\_\_77

5

### 15.14. HB-Board Block Diagram

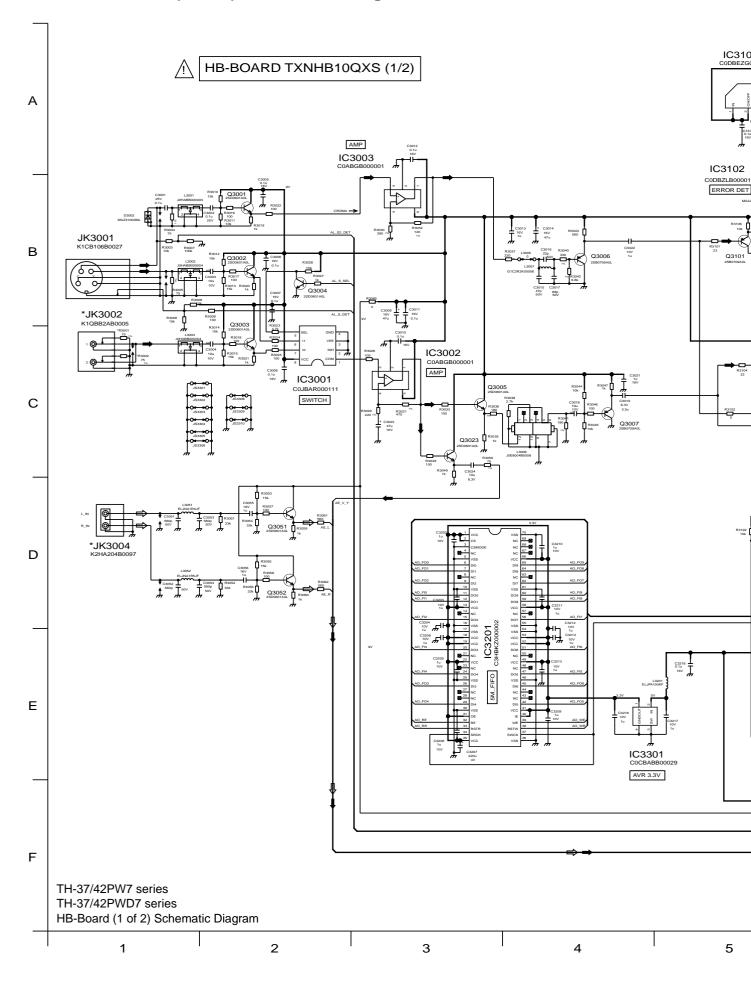


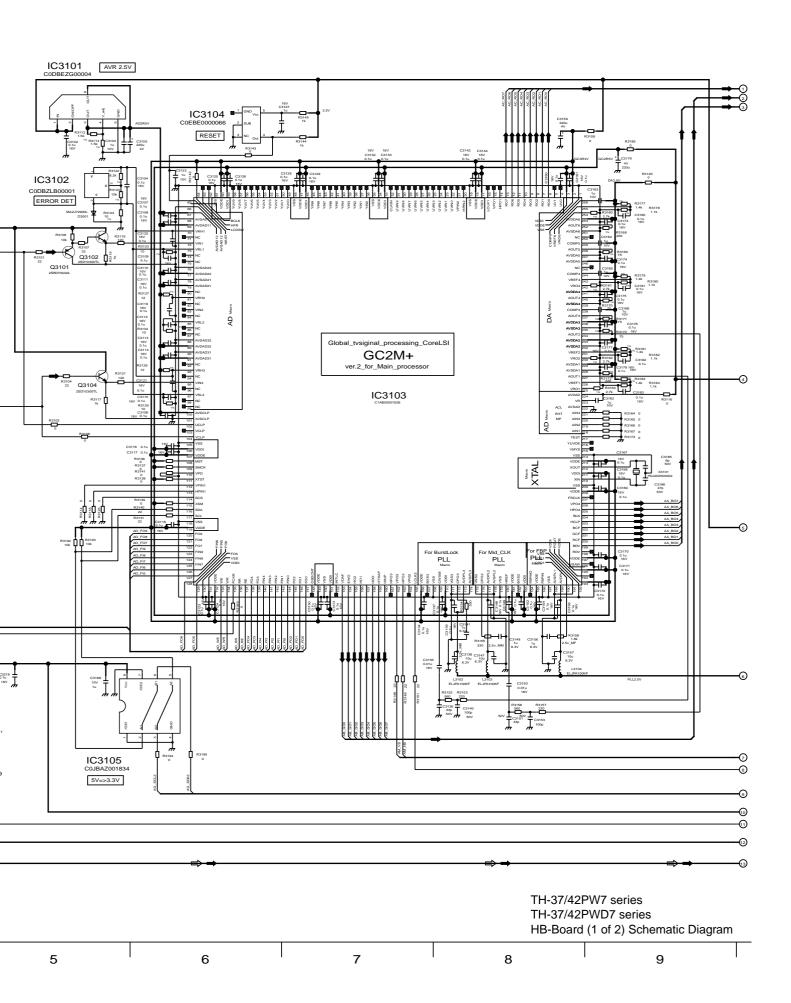
TH-37/42PW7 series TH-37/42PWD7 series HB-Board Block Diagram



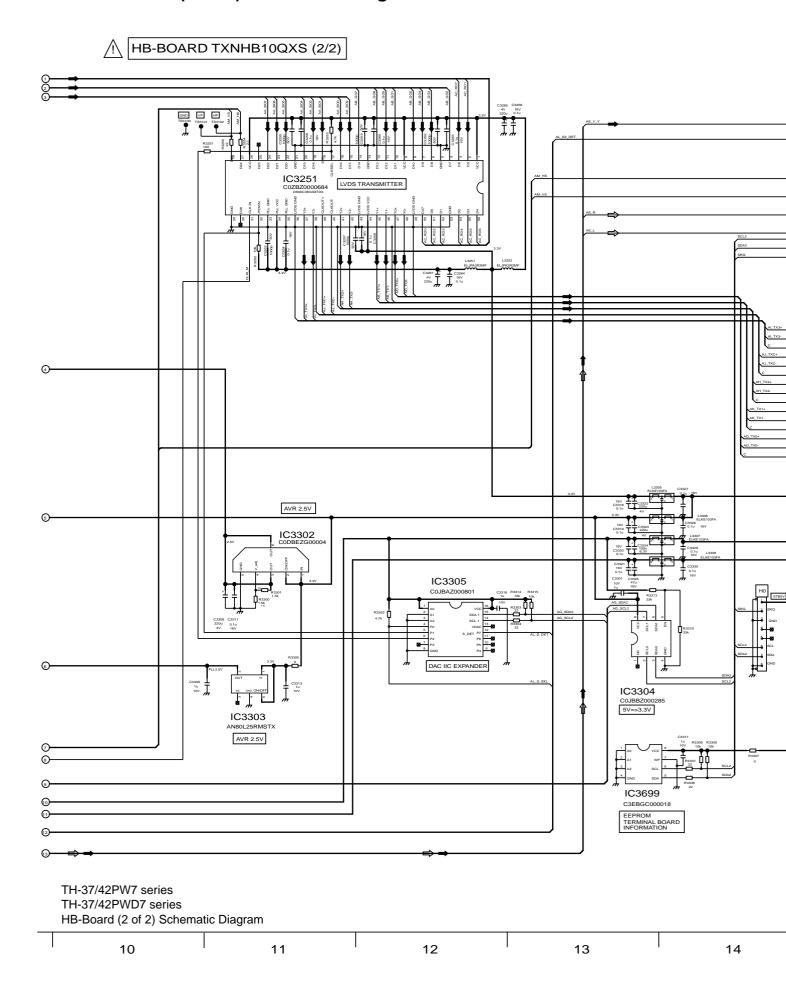
TH-37/42PW7 series TH-37/42PWD7 series HB-Board Block Diagram

# 15.15. HB-Board (1 of 2) Schematic Diagram

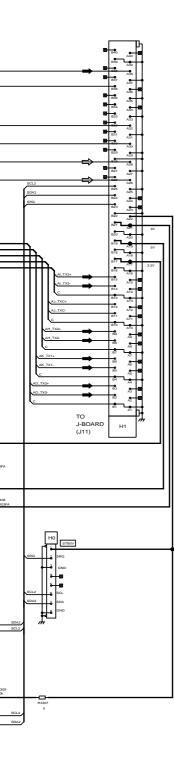




# 15.16. HB-Board (2 of 2) Schematic Diagram





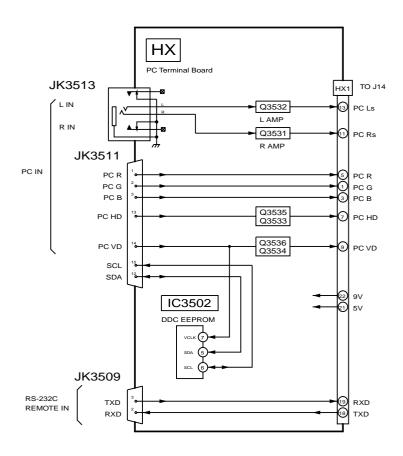


TH-37/42PW7 series
TH-37/42PWD7 series
HB-Board (2 of 2) Schematic Diagram

14 15 16 17 18

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# 15.17. HX-Board Block Diagram

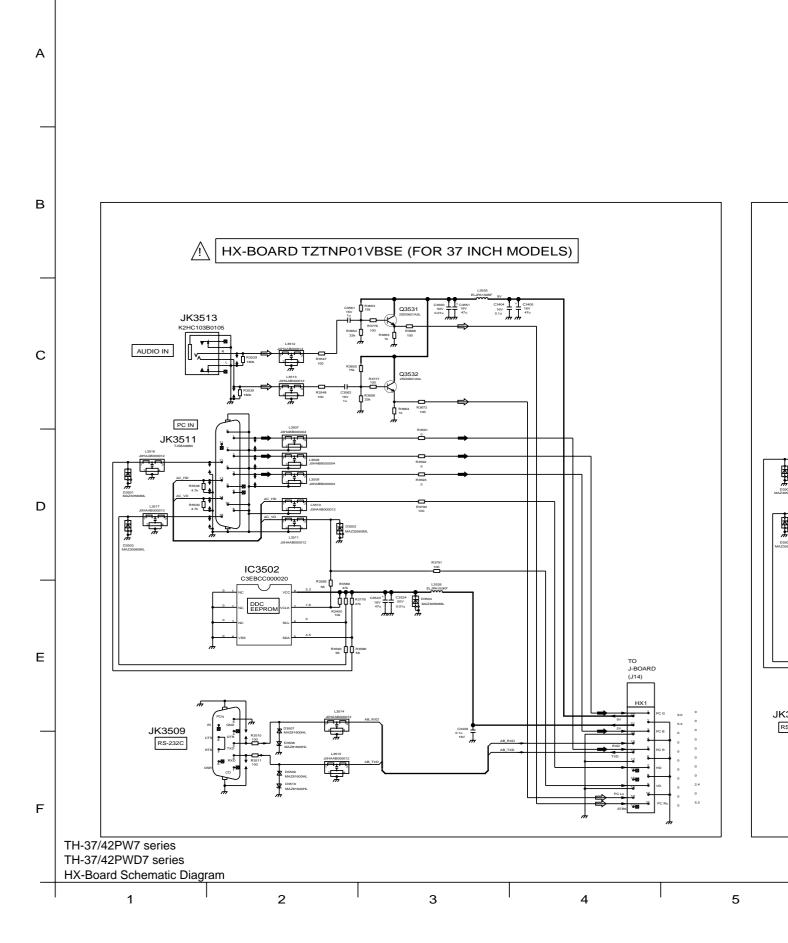


TH-37/42PW7 series TH-37/42PWD7 series HX-Board Block Diagram

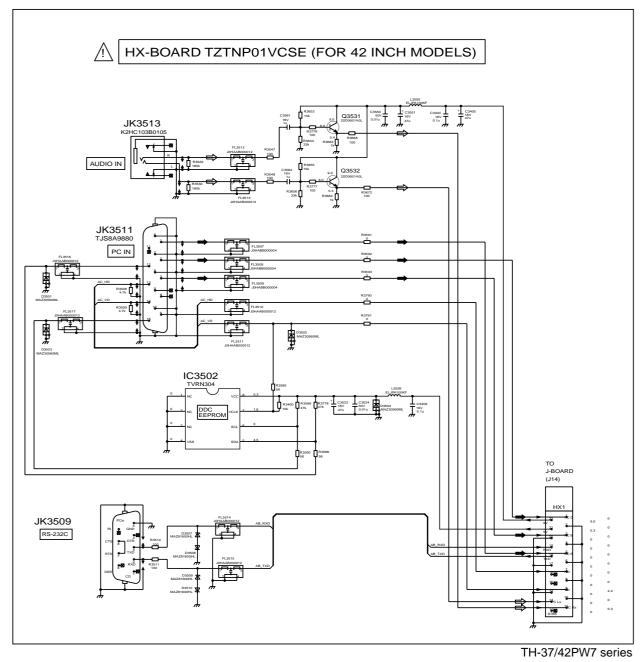
TH-37PW7BX

TH-37/42PW7 series TH-37/42PWD7 series HX-Board Block Diagram

# 15.18. HX-Board Schematic Diagram





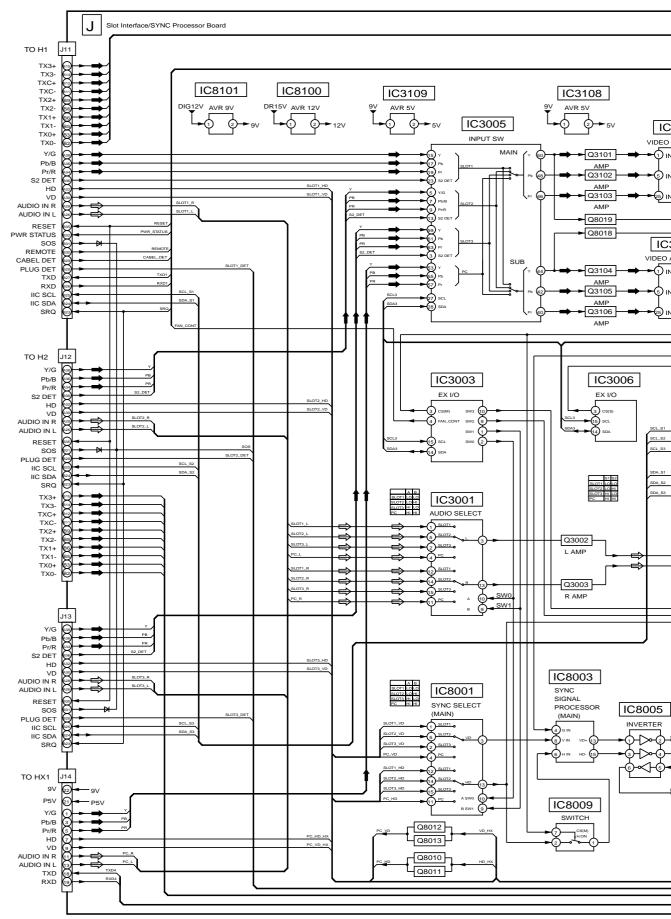


TH-37/42PWD7 series
HX-Board Schematic Diagram

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### 15.19. J-Board Block Diagram

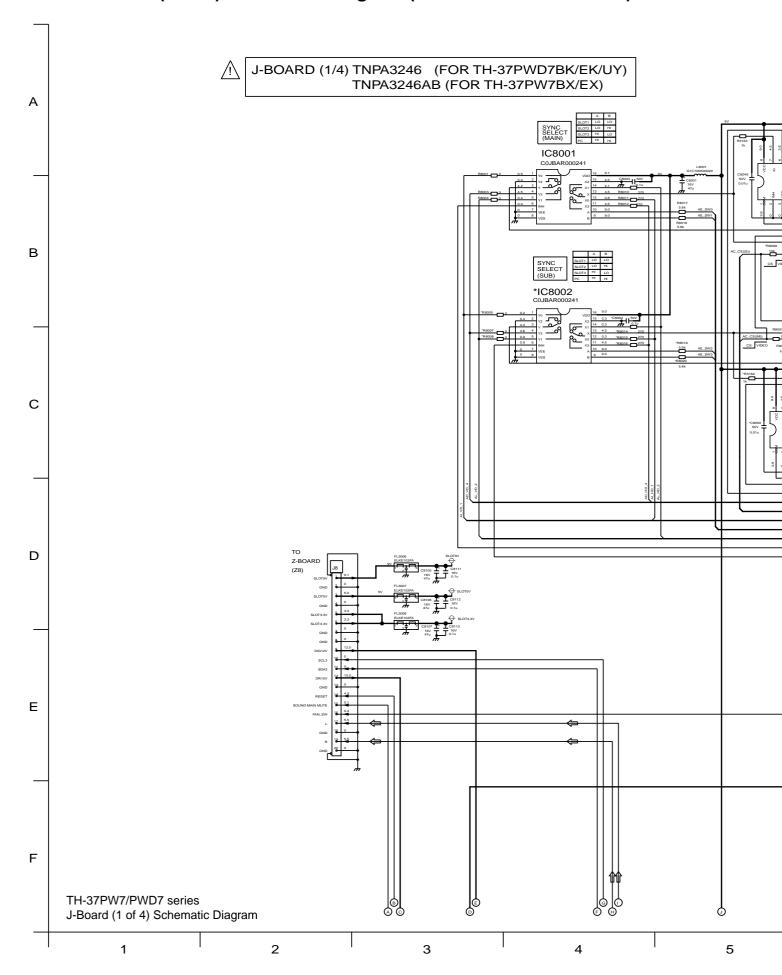


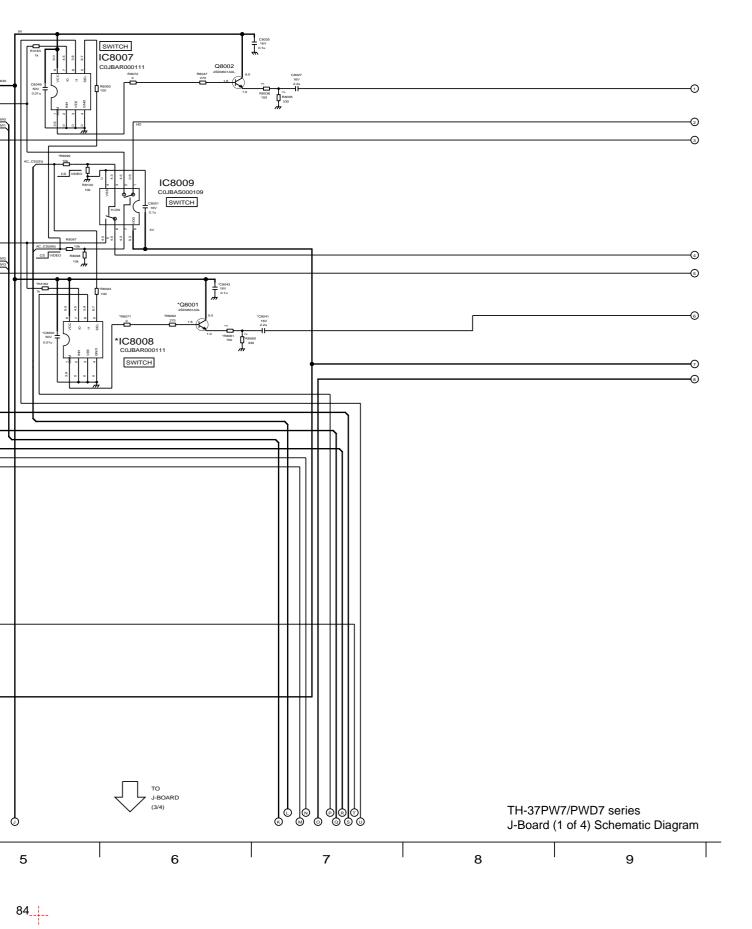
TH-37/42PW7 series TH-37/42PWD7 series J-Board Block Diagram

TH-37/42PW7 series TH-37/42PWD7 series J-Board Block Diagram

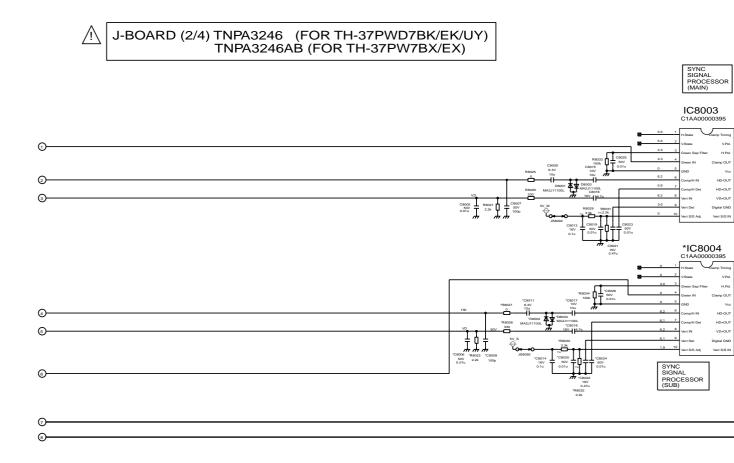
Q8020,Q8021,Q8025

# 15.20. J-Board (1 of 4) Schematic Diagram (TH-37PW7/PWD7 series)



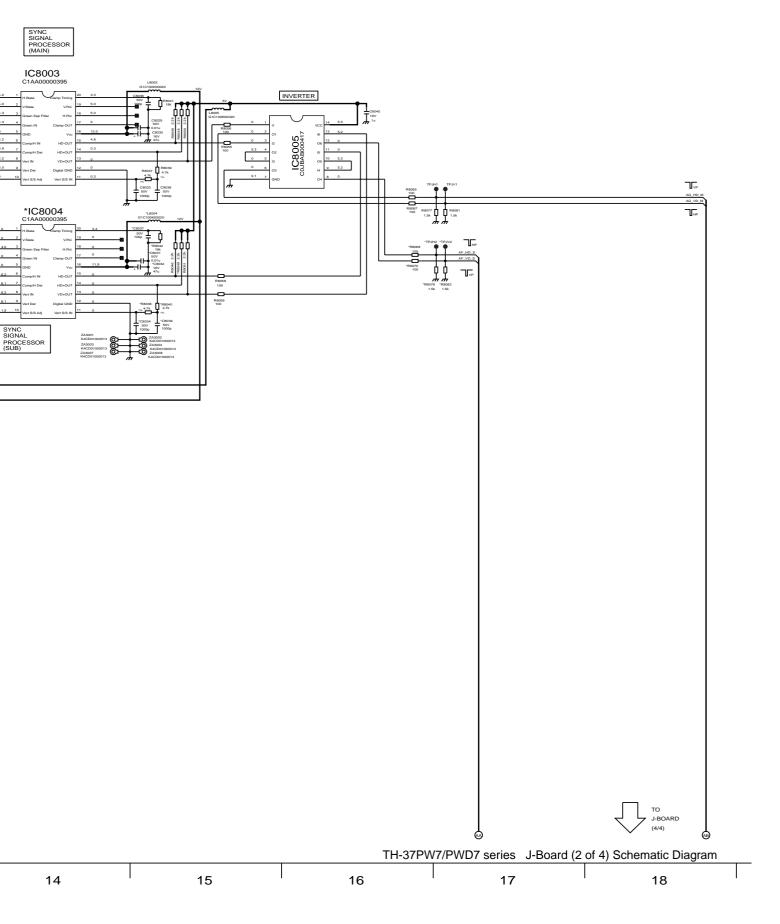


# 15.21. J-Board (2 of 4) Schematic Diagram (TH-37PW7/PWD7 series)

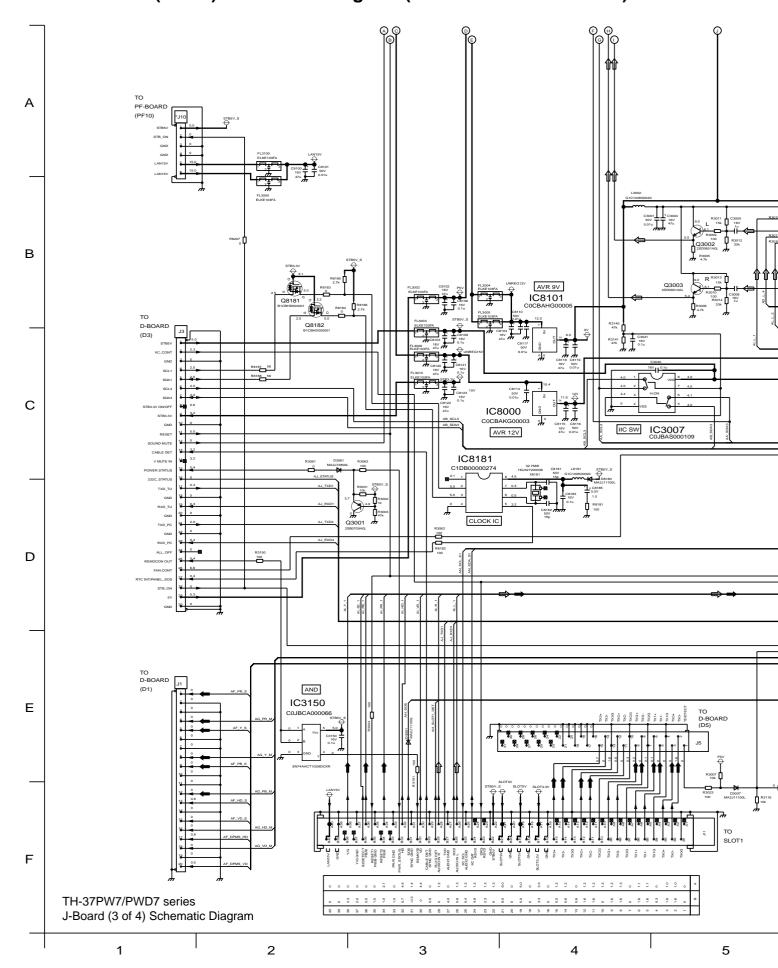




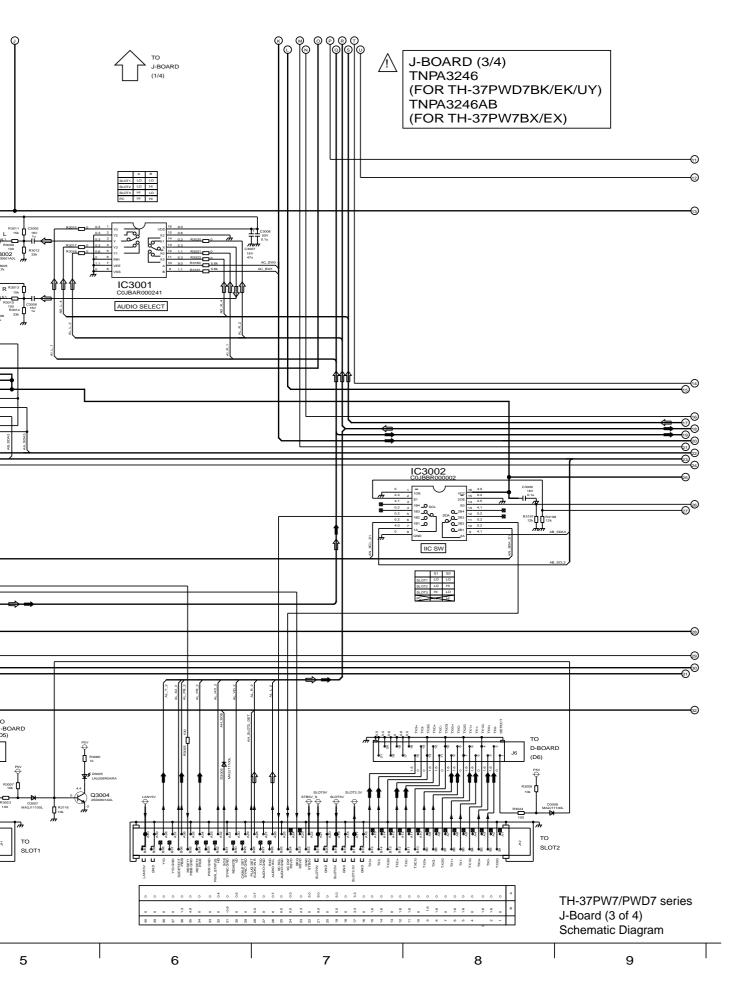




# 15.22. J-Board (3 of 4) Schematic Diagram (TH-37PW7/PWD7 series)

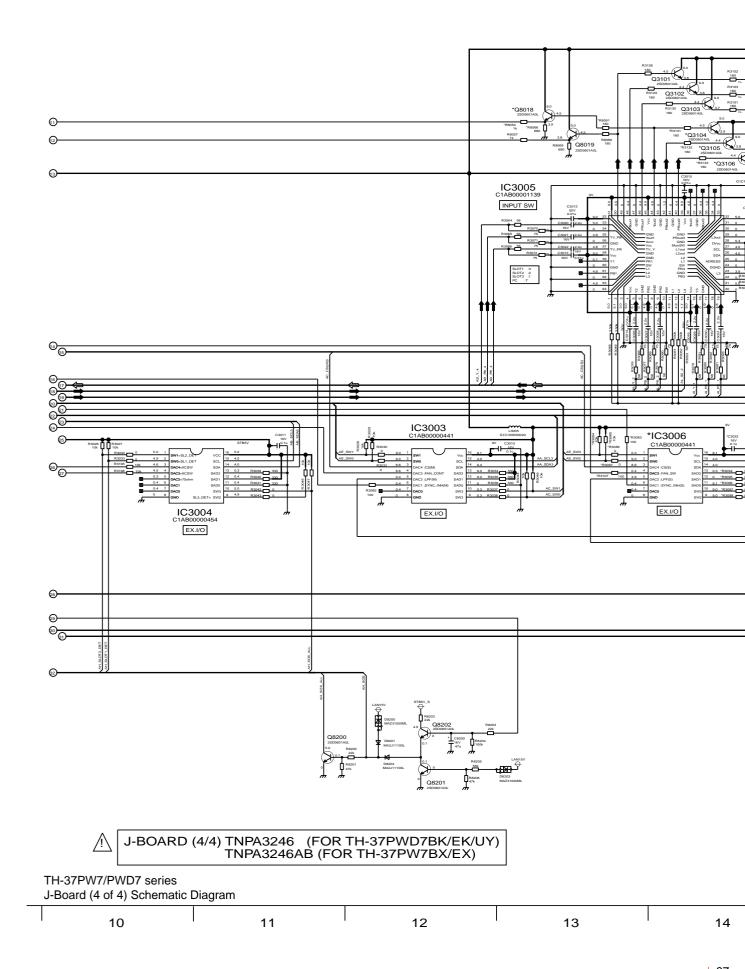




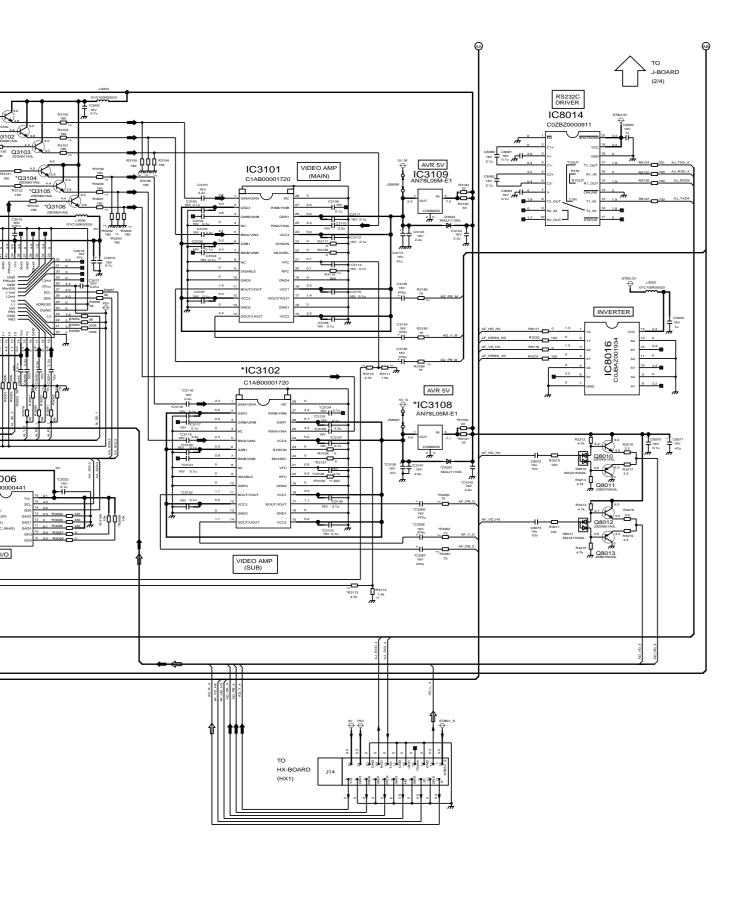


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# 15.23. J-Board (4 of 4) Schematic Diagram (TH-37PW7/PWD7 series)

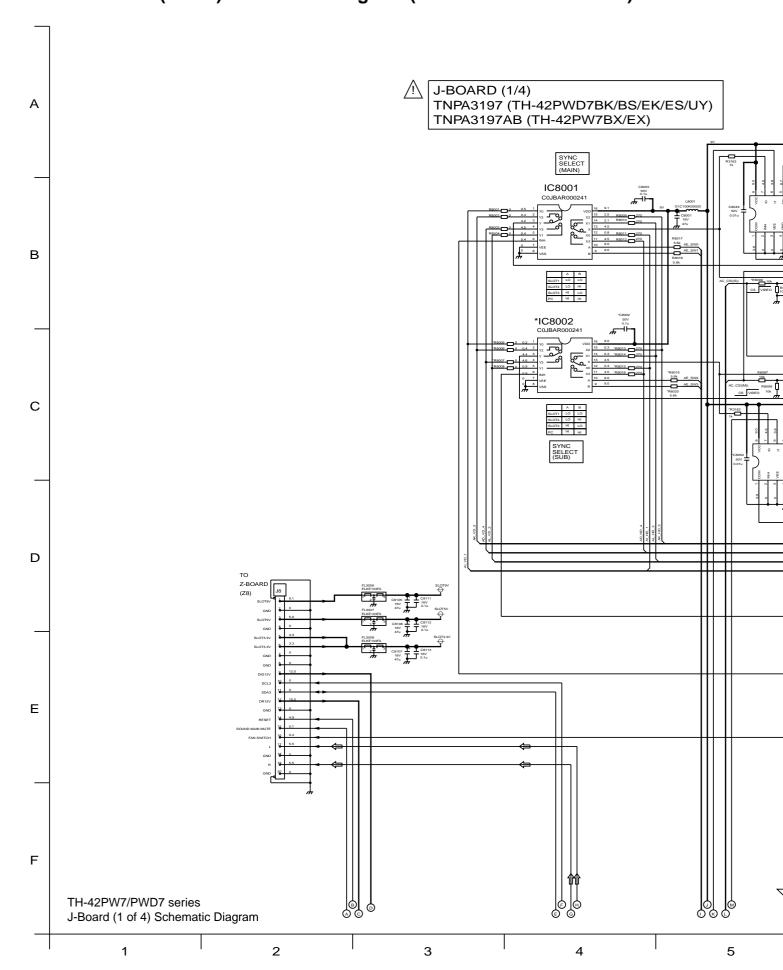


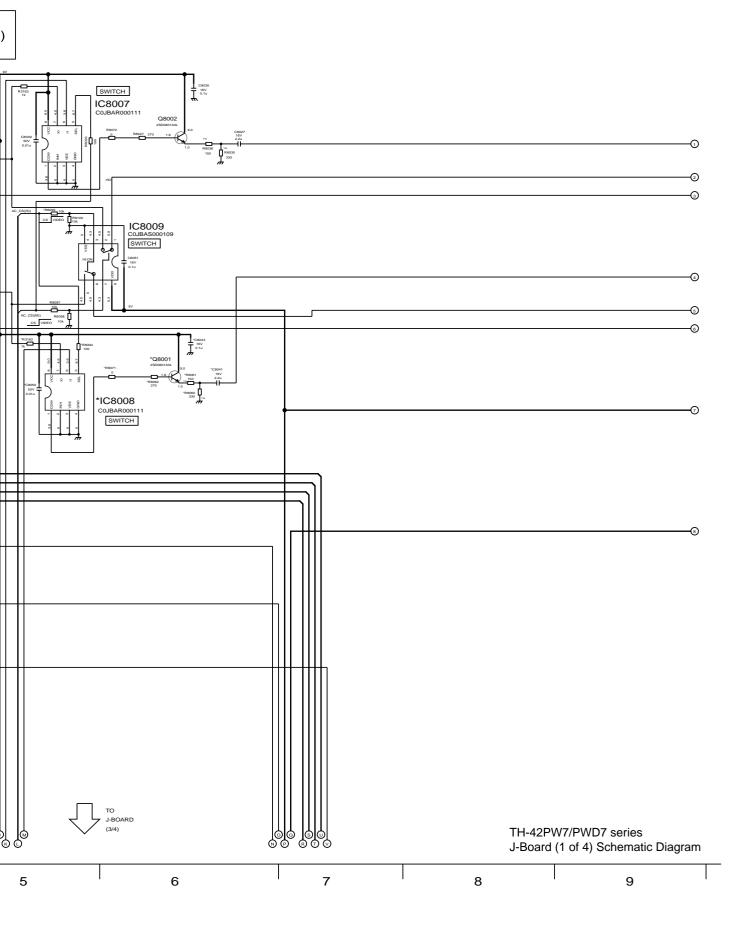






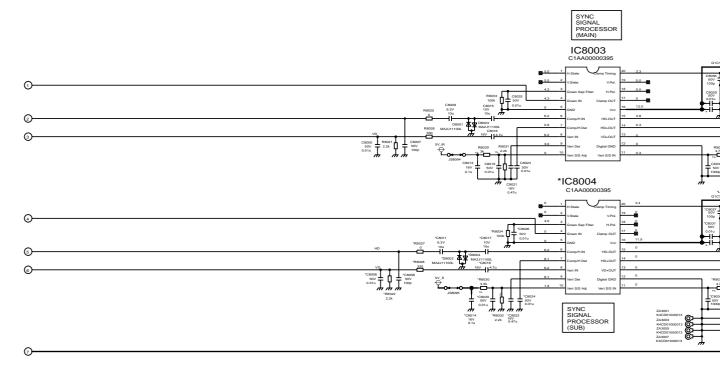
# 15.24. J-Board (1 of 4) Schematic Diagram (TH-42PW7/PWD7 series)

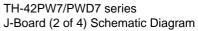




# 15.25. J-Board (2 of 4) Schematic Diagram (TH-42PW7/PWD7 series)

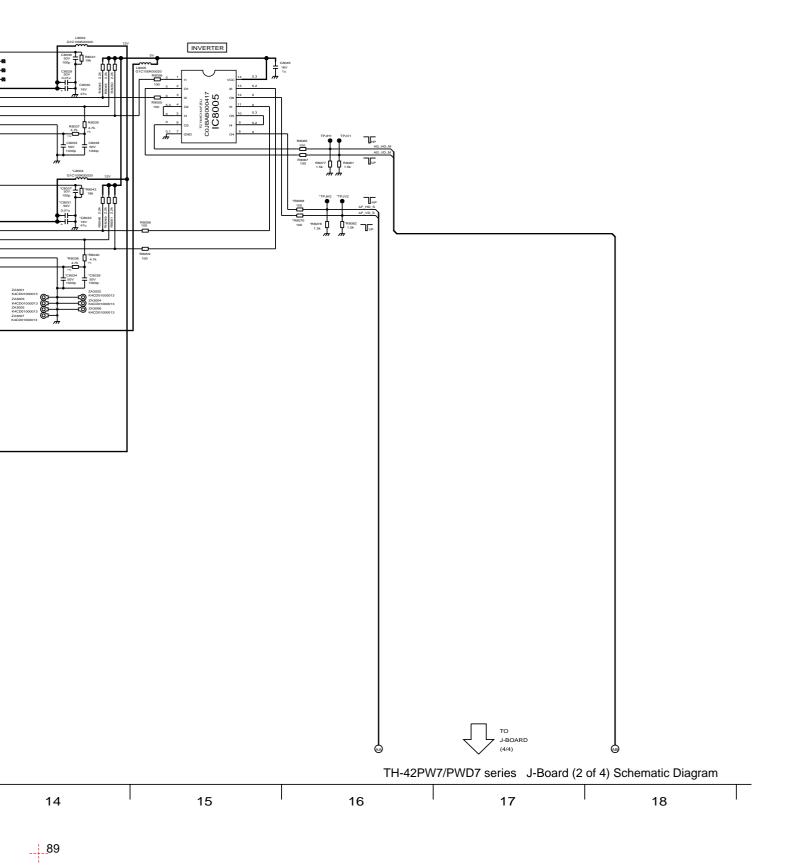
J-BOARD (2/4)
TNPA3197 (TH-42PWD7BK/BS/EK/ES/UY)
TNPA3197AB (TH-42PW7BX/EX)



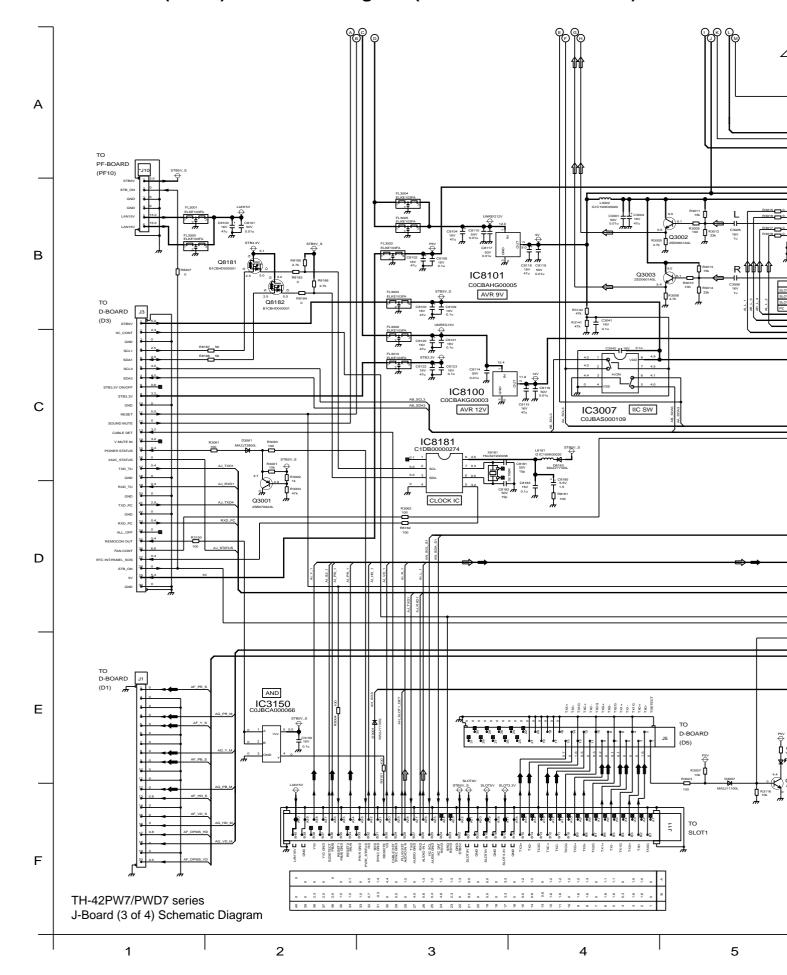


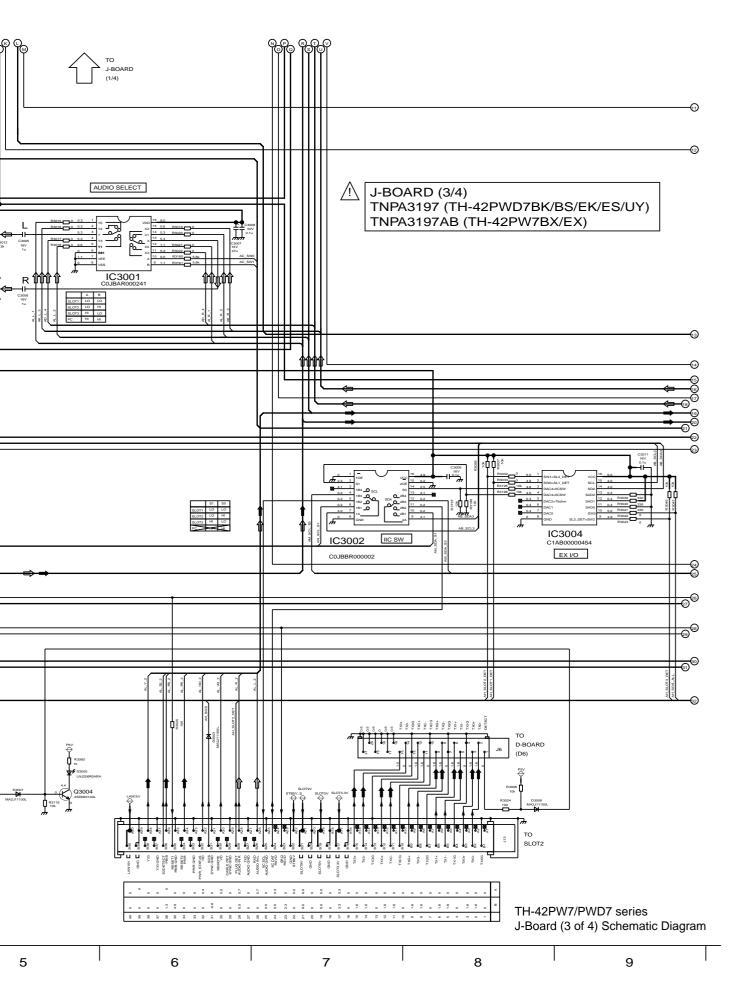






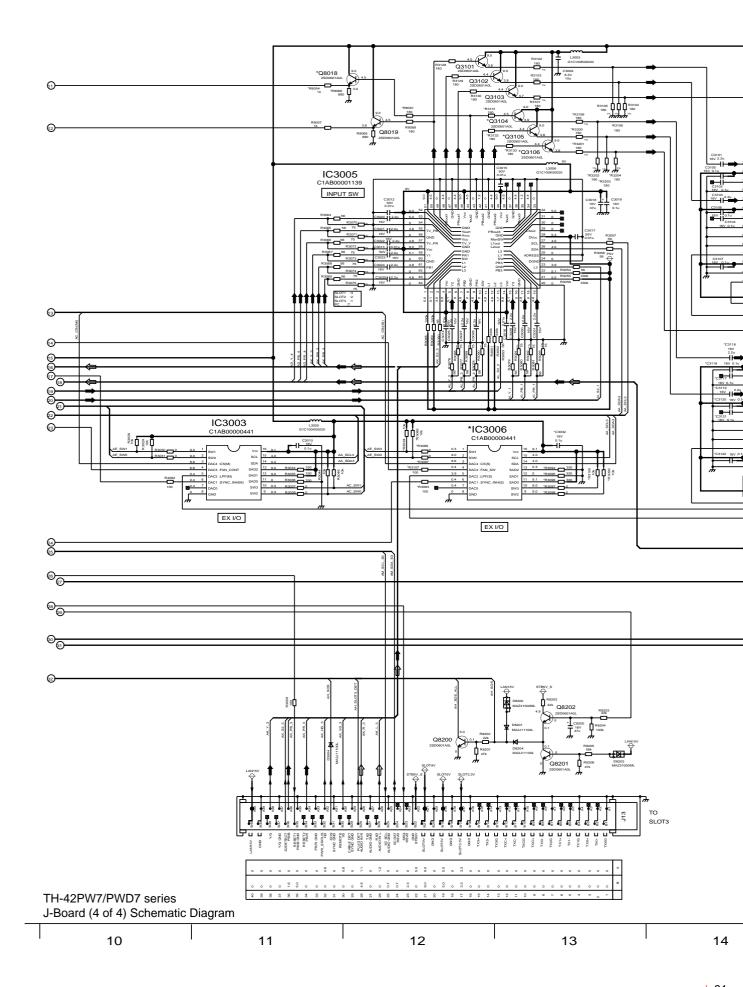
# 15.26. J-Board (3 of 4) Schematic Diagram (TH-42PW7/PWD7 series)



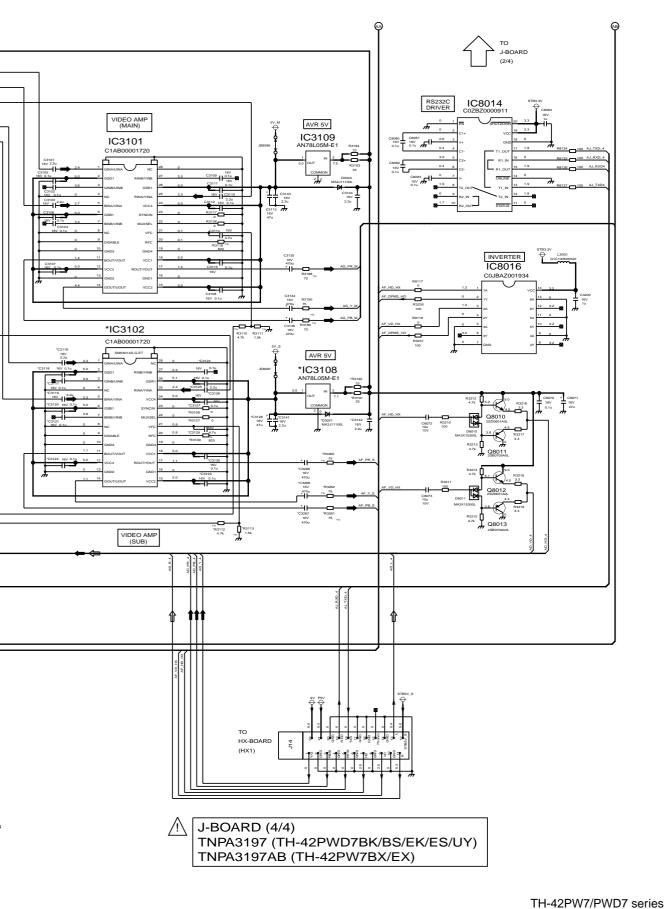


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# 15.27. J-Board (4 of 4) Schematic Diagram (TH-42PW7/PWD7 series)







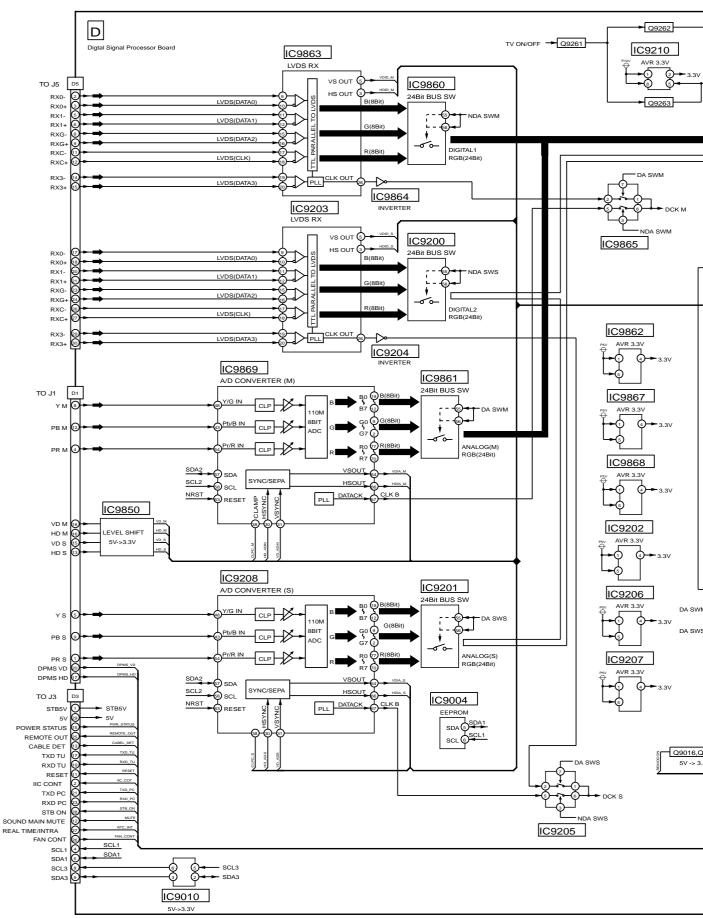
J-Board (4 of 4) Schematic Diagram

14 15 16 17 18

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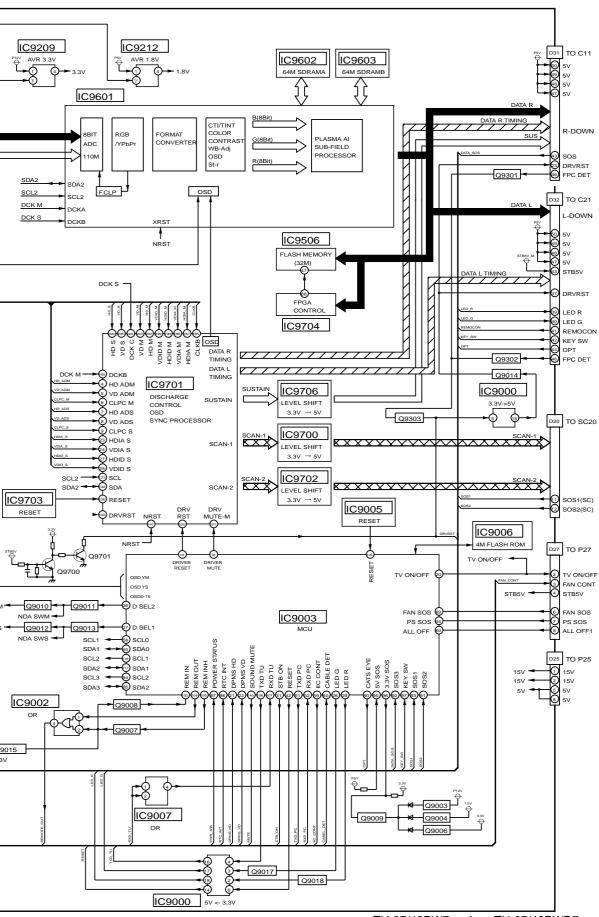
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### 15.28. D-Board Block Diagram



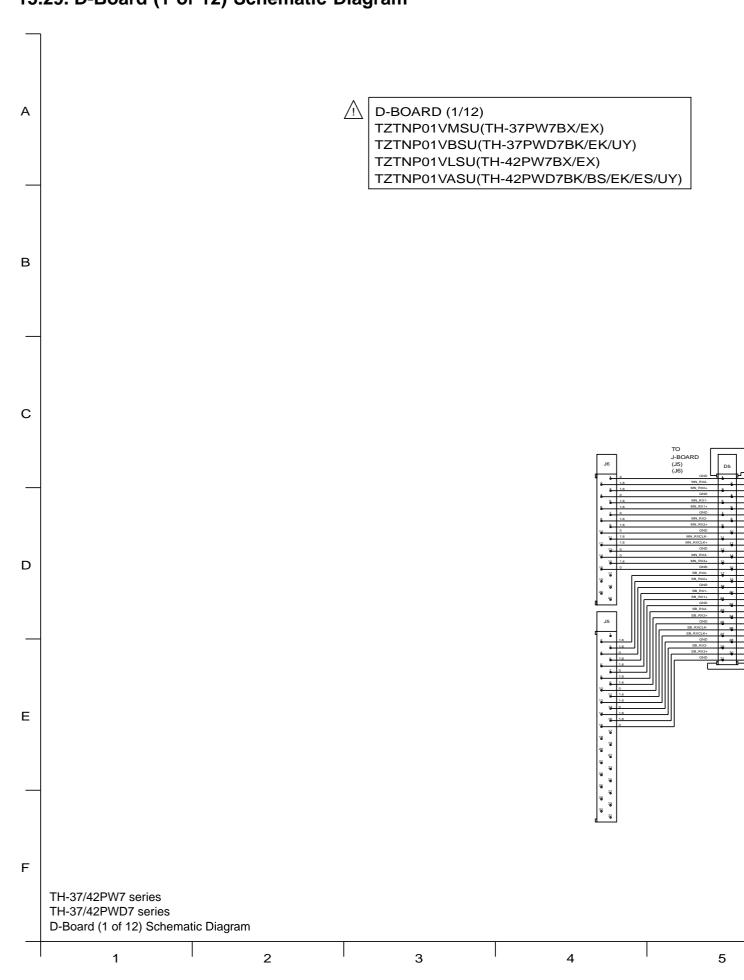
TH-37/42PW7 series TH-37/42PWD7 series D-Board Block Diagram

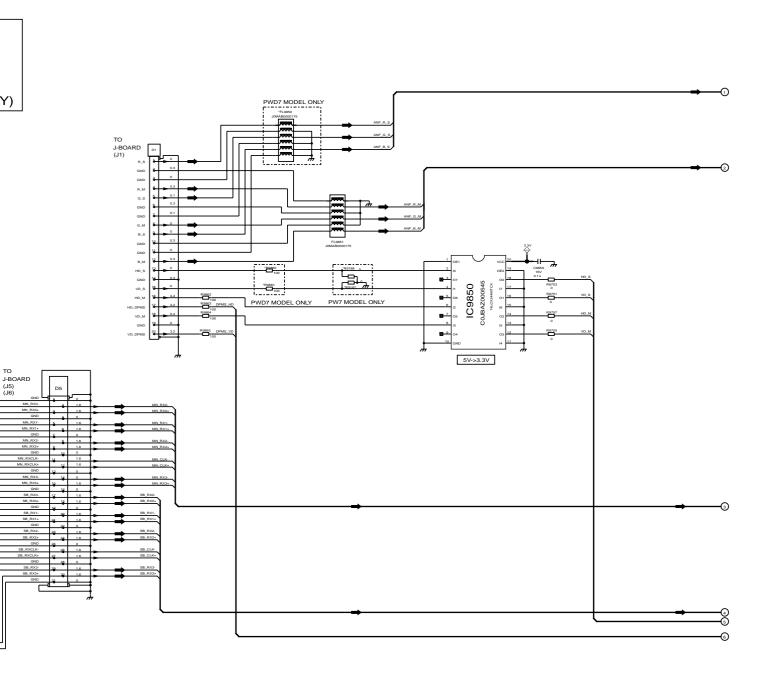
92

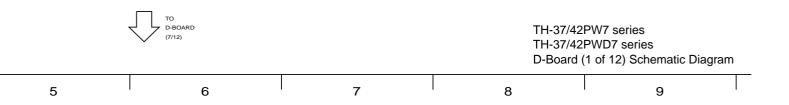


TH-37/42PW7 series TH-37/42PWD7 series D-Board Block Diagram

# 15.29. D-Board (1 of 12) Schematic Diagram



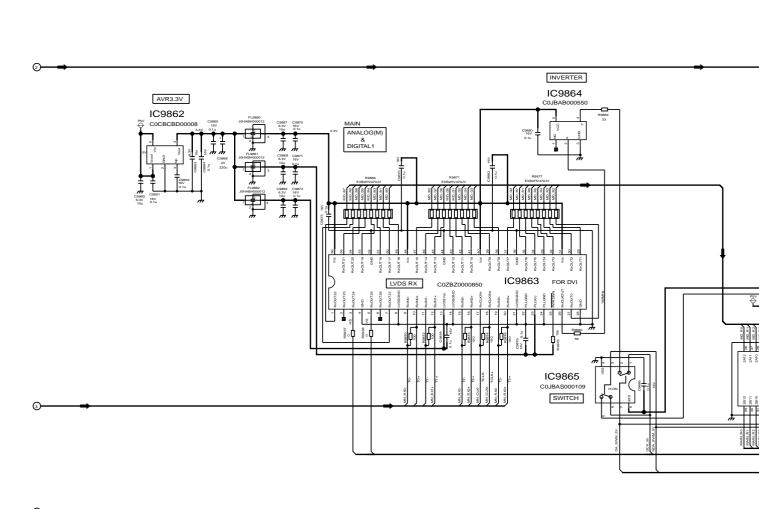


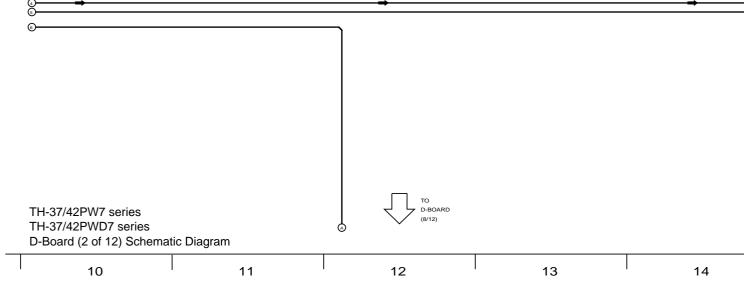


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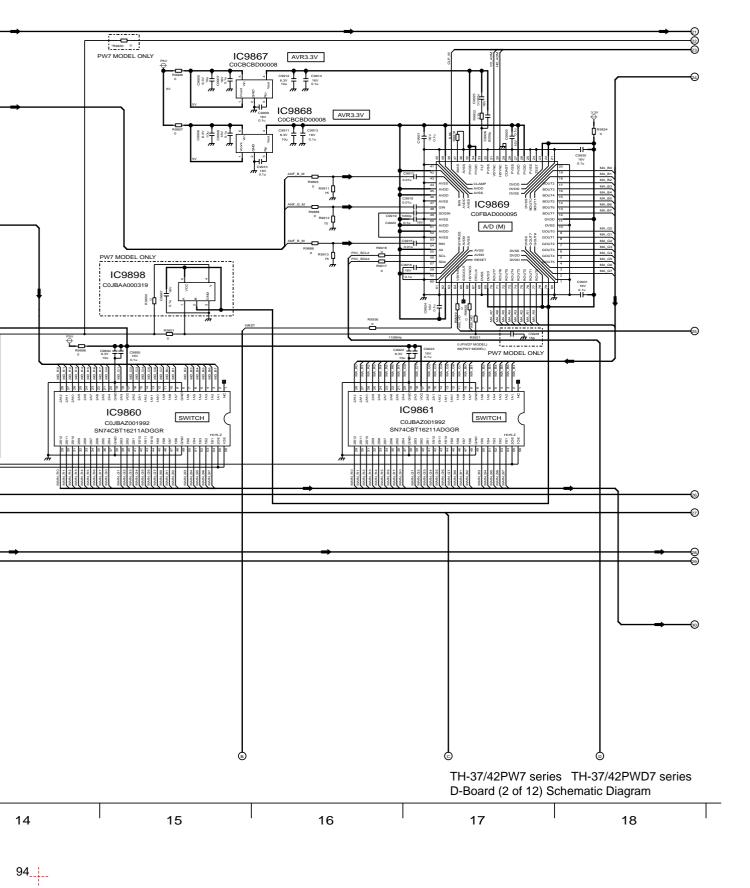
### 15.30. D-Board (2 of 12) Schematic Diagram

D-BOARD (2/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)



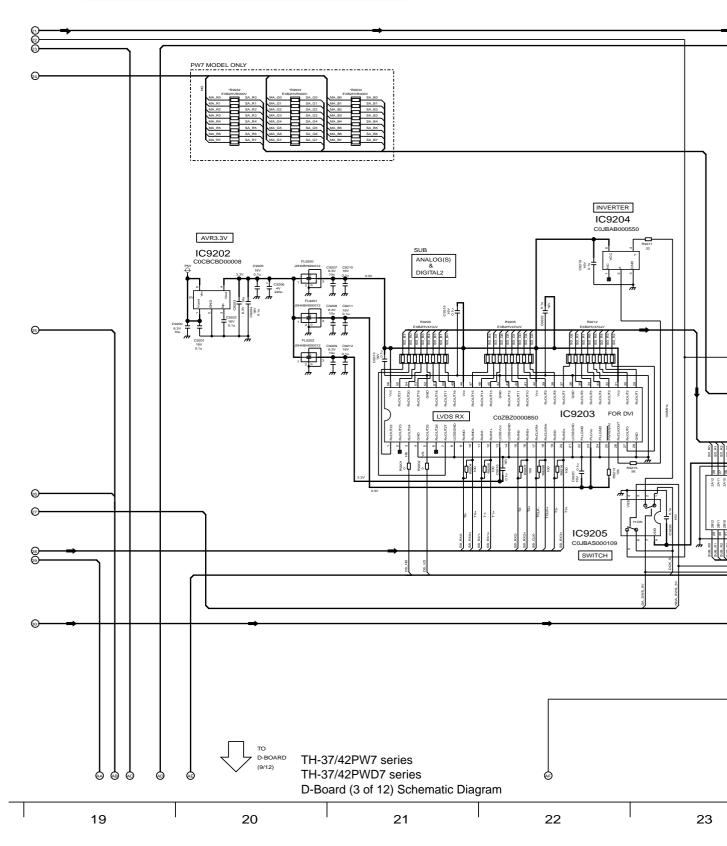


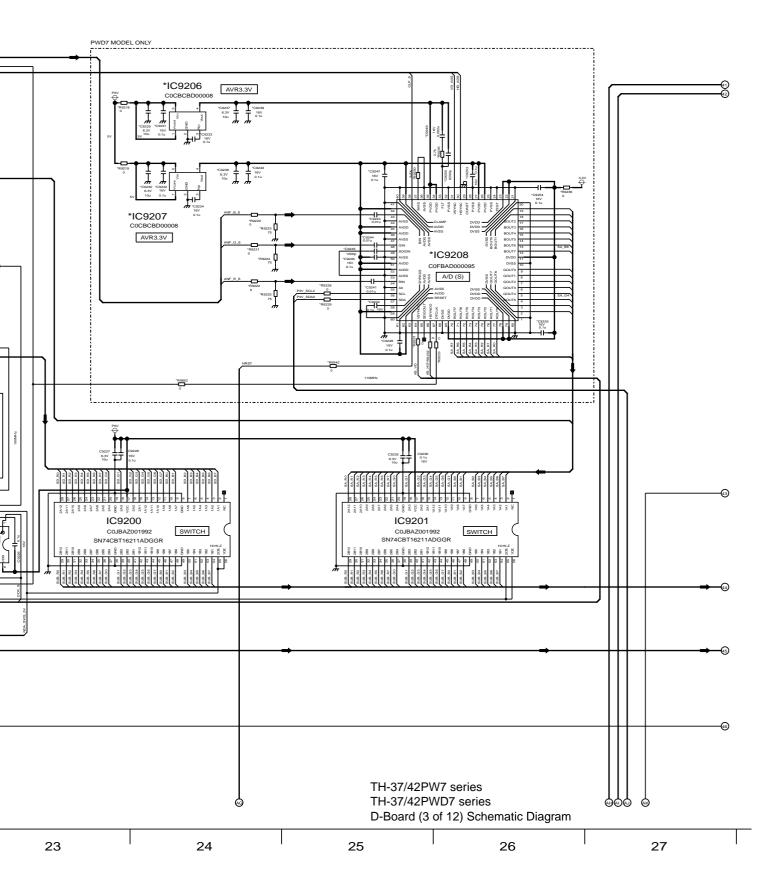




### 15.31. D-Board (3 of 12) Schematic Diagram

D-BOARD (3/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)





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# 15.32. D-Board (4 of 12) Schematic Diagram

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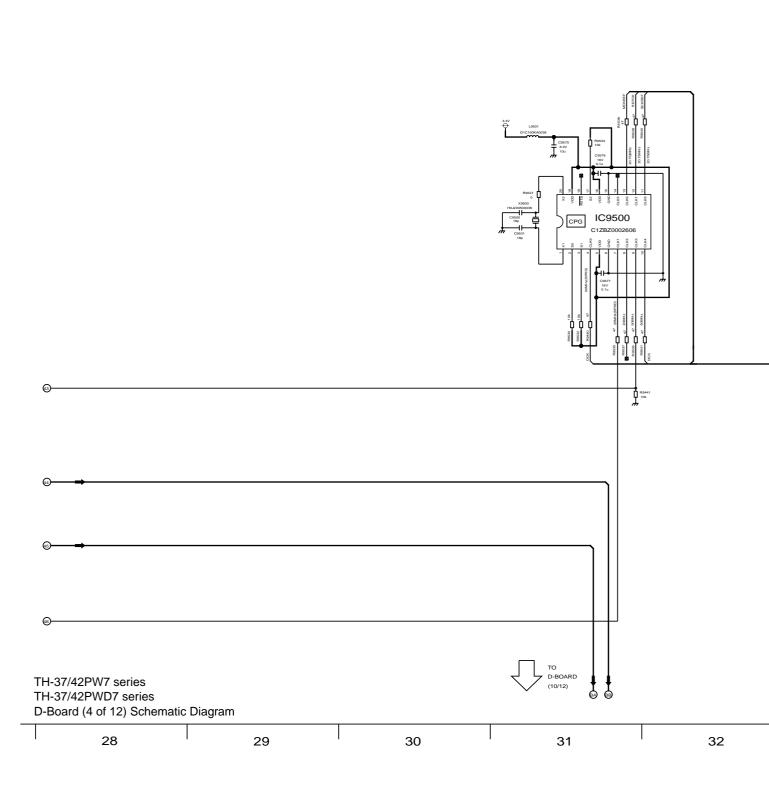
D-BOARD (4/12)

TZTNP01VMSU(TH-37PW7BX/EX)

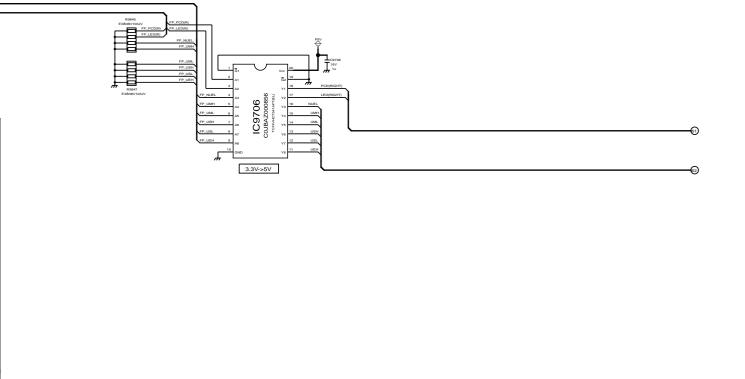
TZTNP01VBSU(TH-37PWD7BK/EK/UY)

TZTNP01VLSU(TH-42PW7BX/EX)

TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)

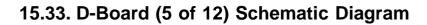






TH-37/42PW7 series TH-37/42PWD7 series D-Board (4 of 12) Schematic Diagram

32 33 34 35 36





D-BOARD (5/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)

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TH-37/42PW7 series TH-37/42PWD7 series D-Board (5 of 12) Schematic Diagram



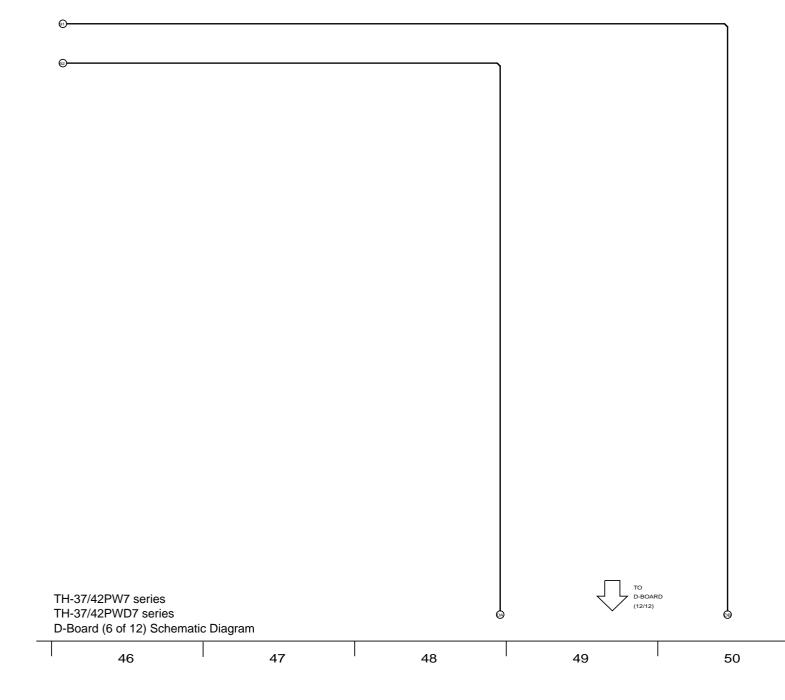
TH-37PW7BX

TH-37/42PW7 series
TH-37/42PW7 series
D-Board (5 of 12) Schematic Diagram



# 15.34. D-Board (6 of 12) Schematic Diagram

D-BOARD (6/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)



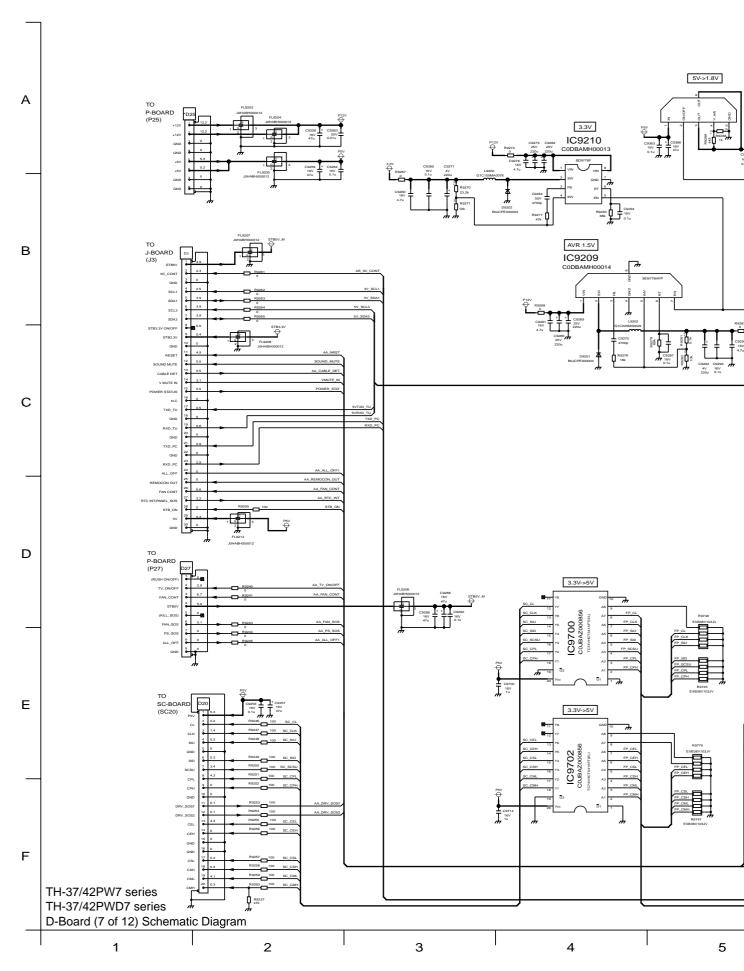
**|** 

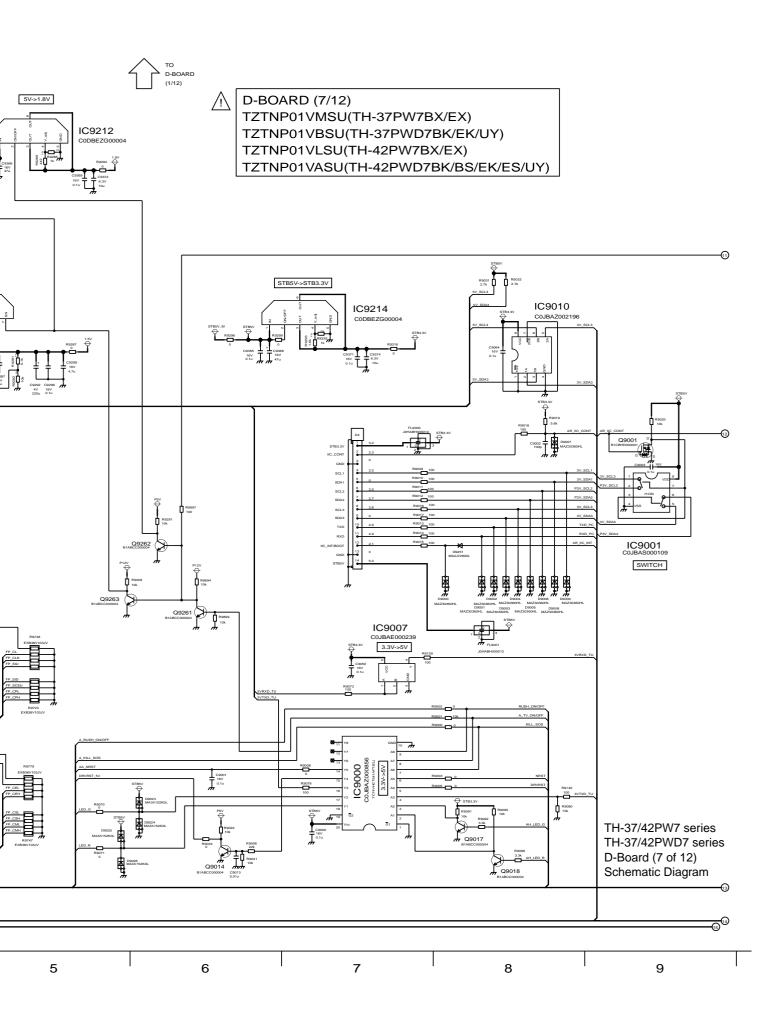
TH-37/42PW7 series
TH-37/42PWD7 series
D-Board (6 of 12) Schematic Diagram

50 51 52 53 54

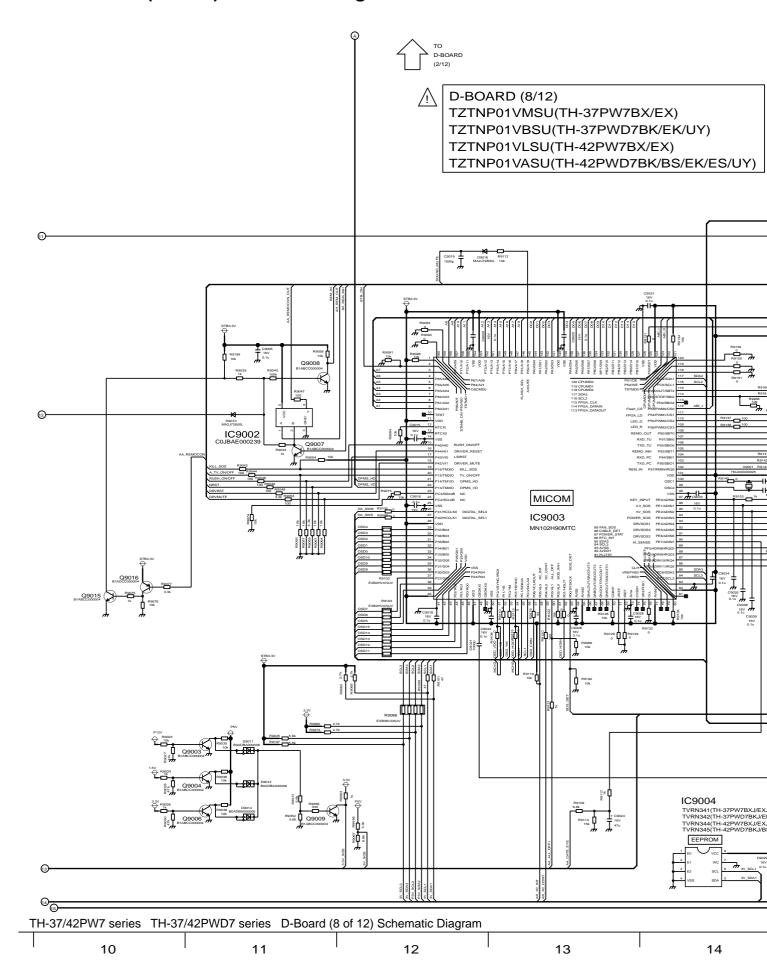
98\_\_\_\_

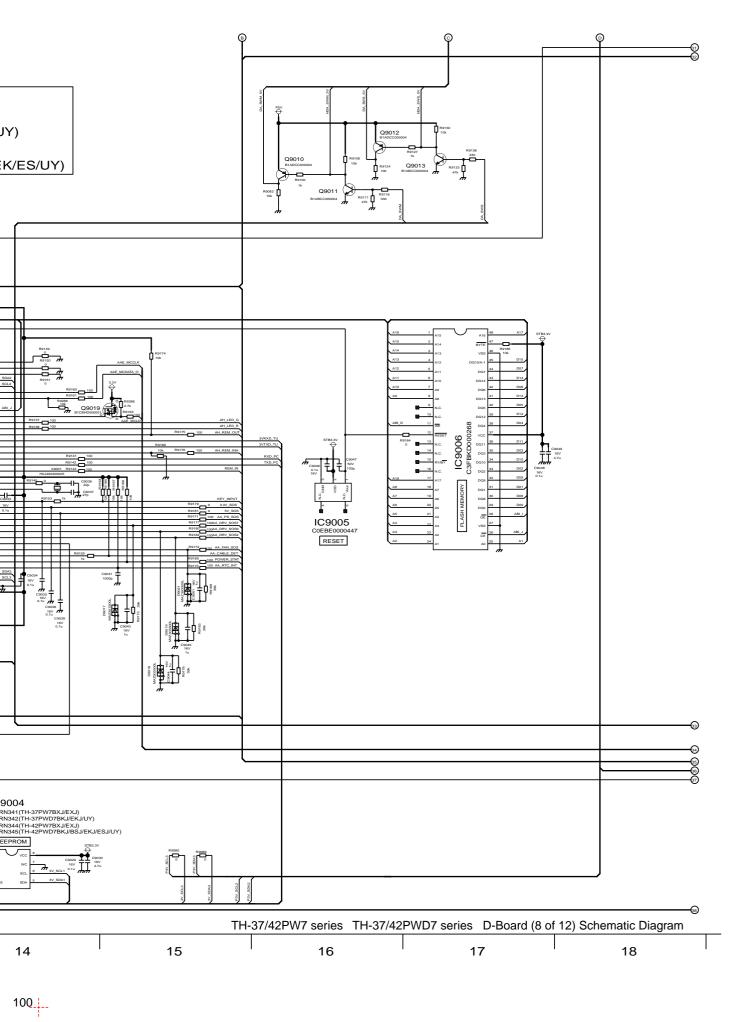
### 15.35. D-Board (7 of 12) Schematic Diagram



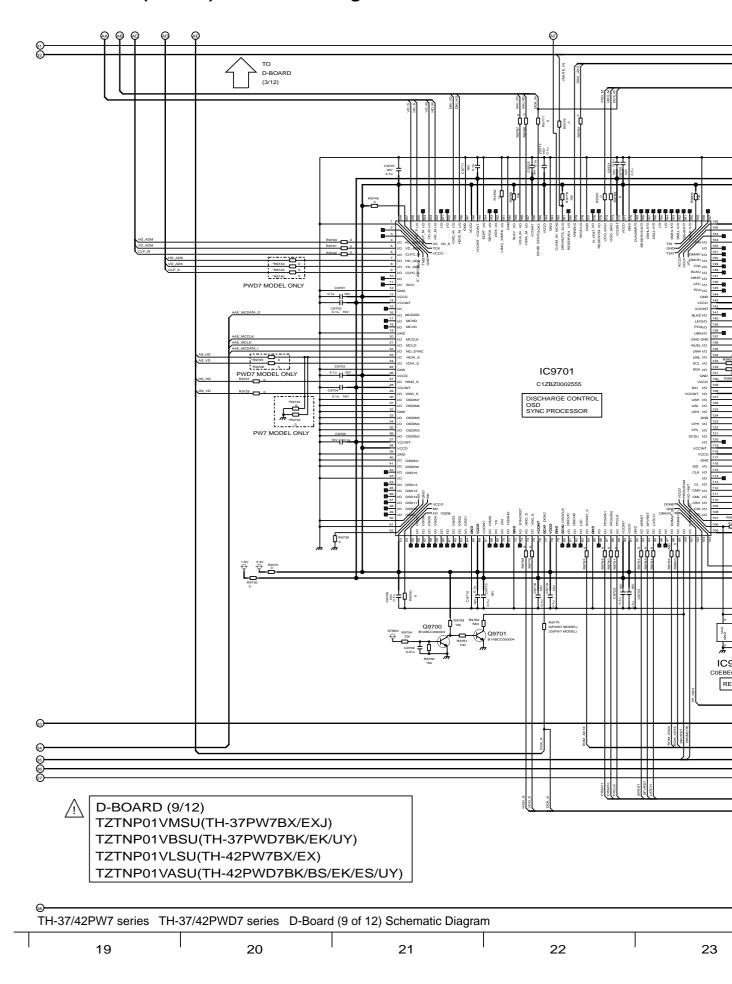


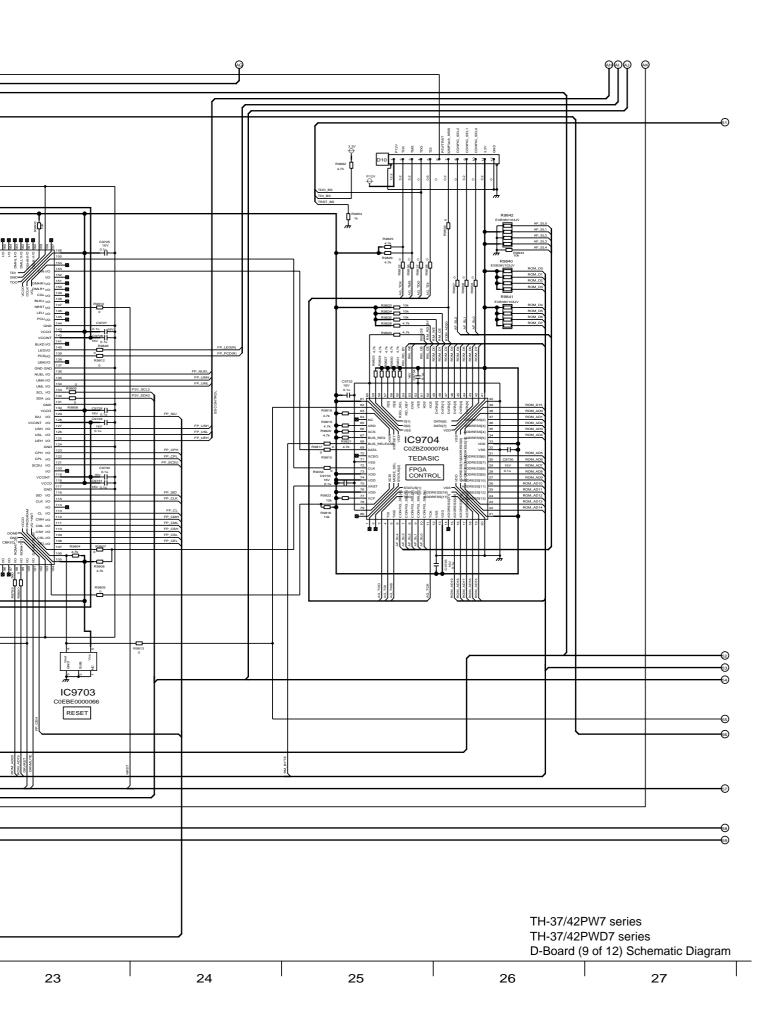
# 15.36. D-Board (8 of 12) Schematic Diagram





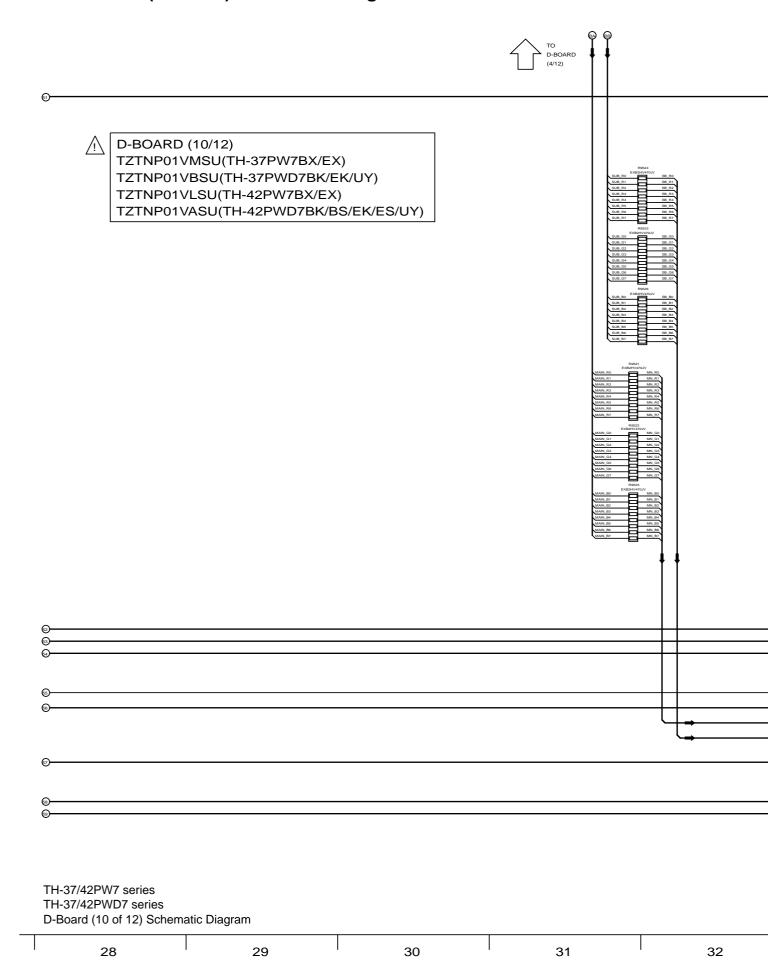
#### 15.37. D-Board (9 of 12) Schematic Diagram



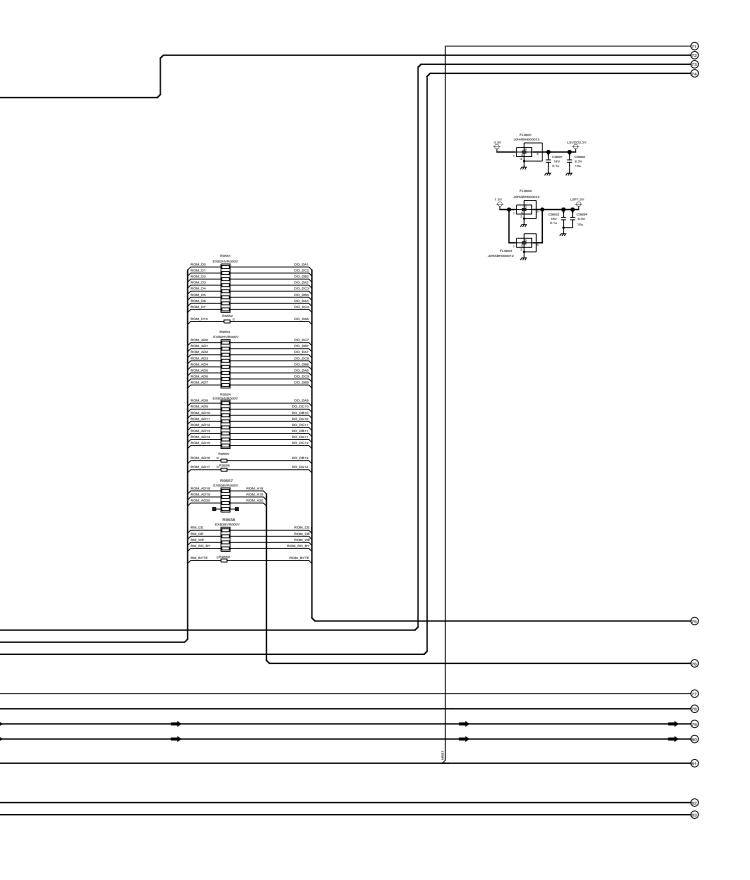


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# 15.38. D-Board (10 of 12) Schematic Diagram



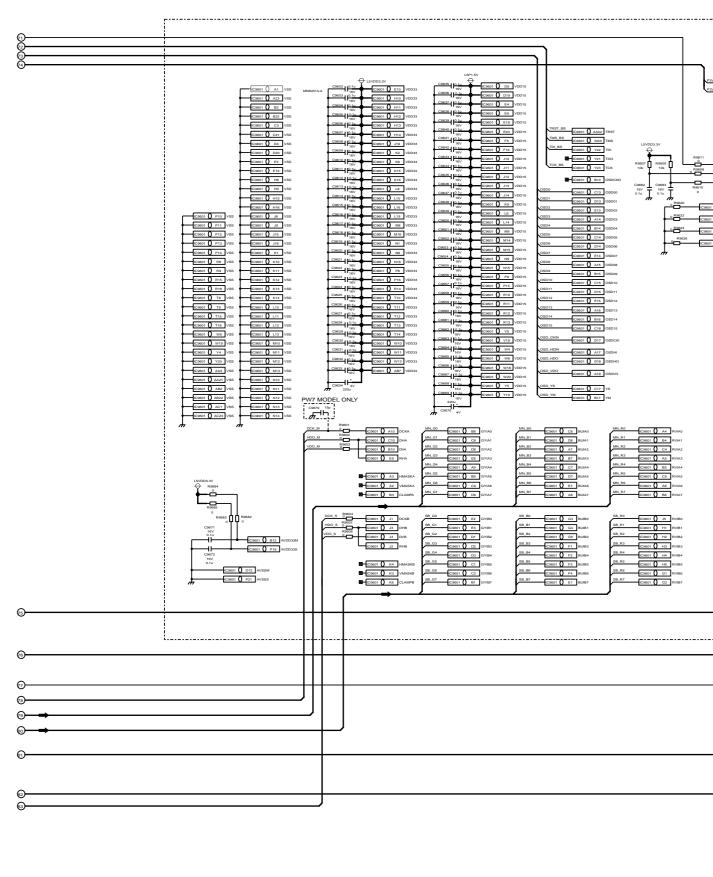




TH-37/42PW7 series TH-37/42PWD7 series D-Board (10 of 12) Schematic Diagram

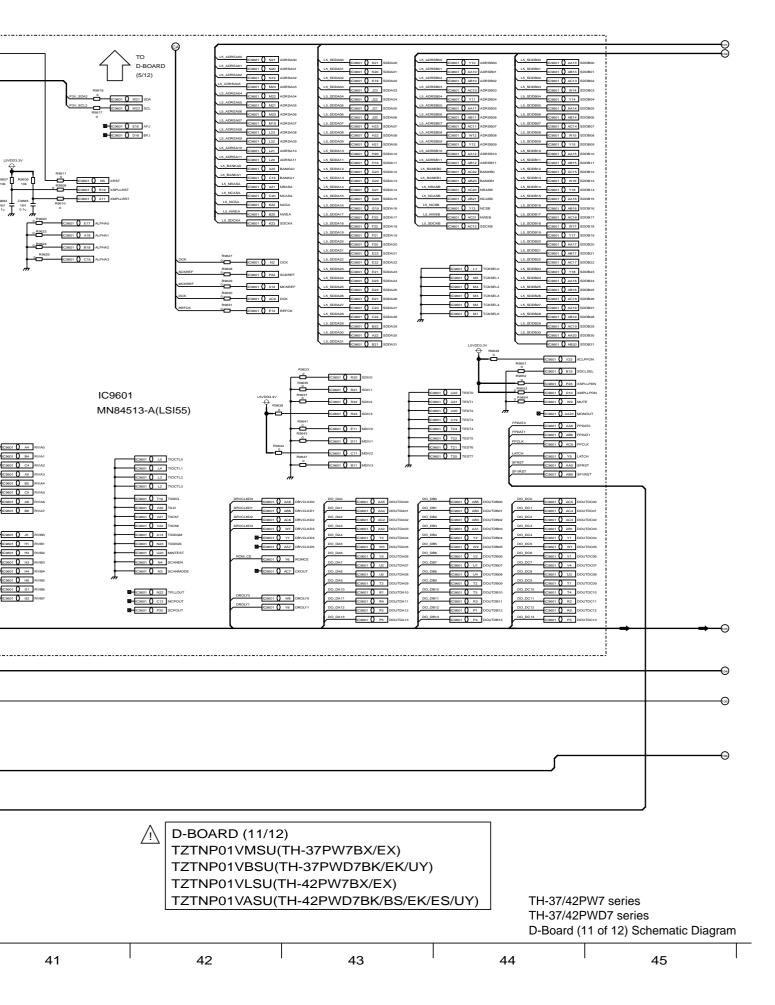
32 33 34 35 36

# 15.39. D-Board (11 of 12) Schematic Diagram



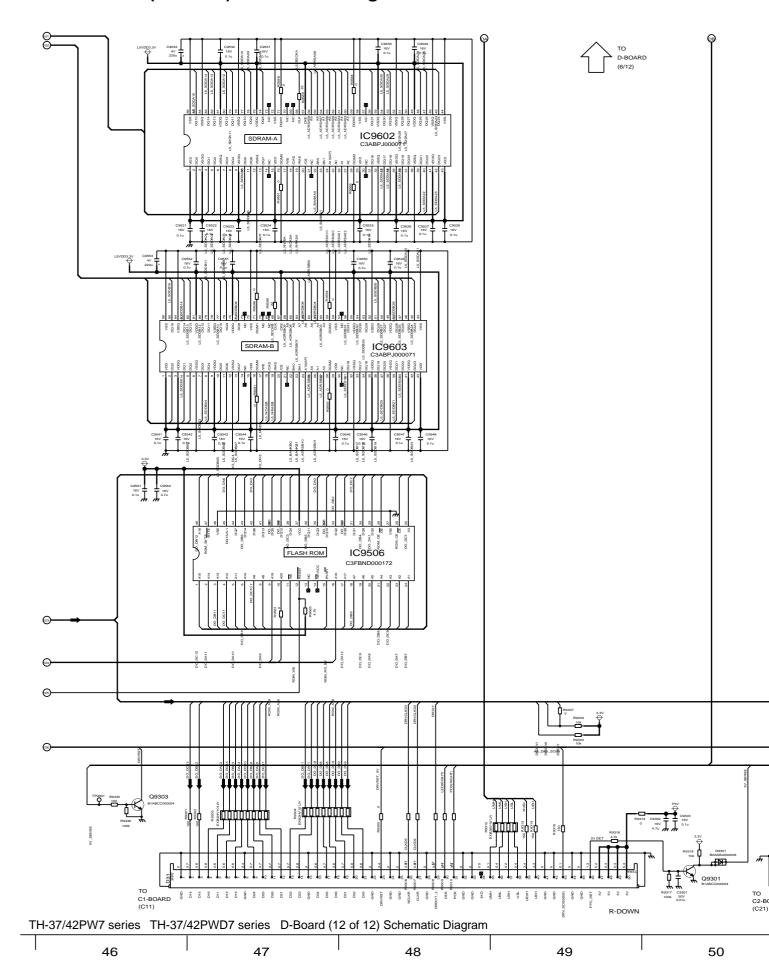
TH-37/42PW7 series
TH-37/42PWD7 series
D-Board (11 of 12) Schematic Diagram

37 38 39 40 41



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# 15.40. D-Board (12 of 12) Schematic Diagram



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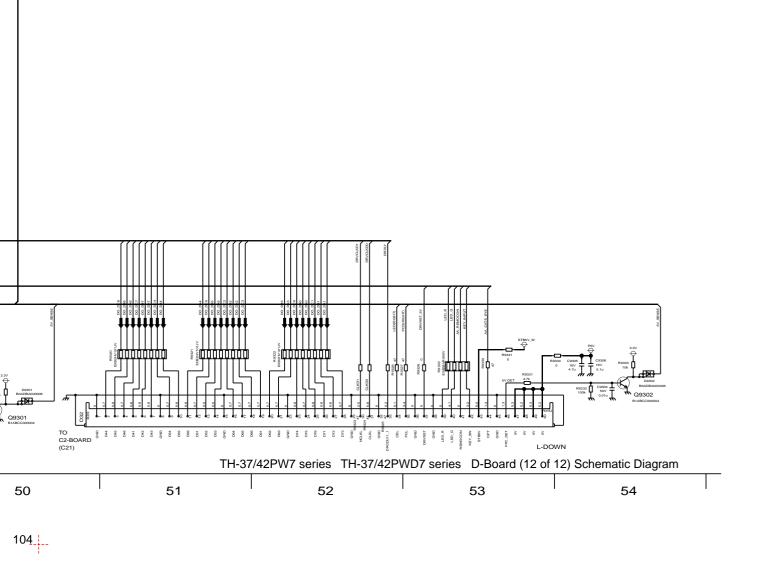
D-BOARD (12/12)

TZTNP01VMSU(TH-37PW7BX/EX)

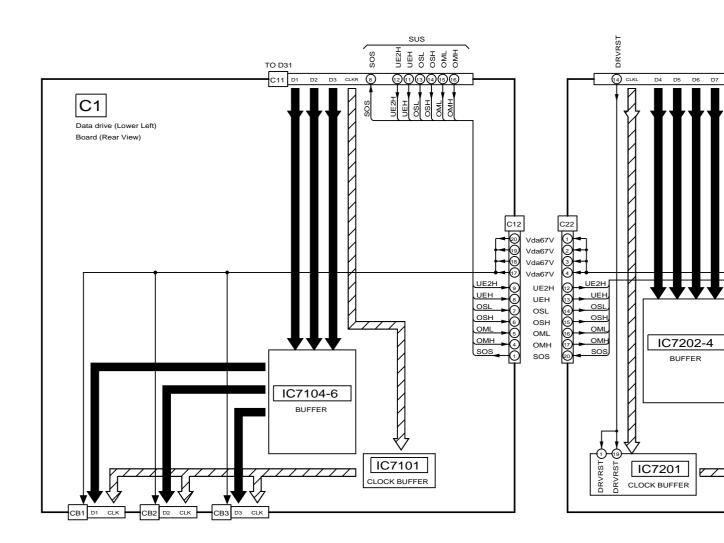
TZTNP01VBSU(TH-37PWD7BK/EK/UY)

TZTNP01VLSU(TH-42PW7BX/EX)

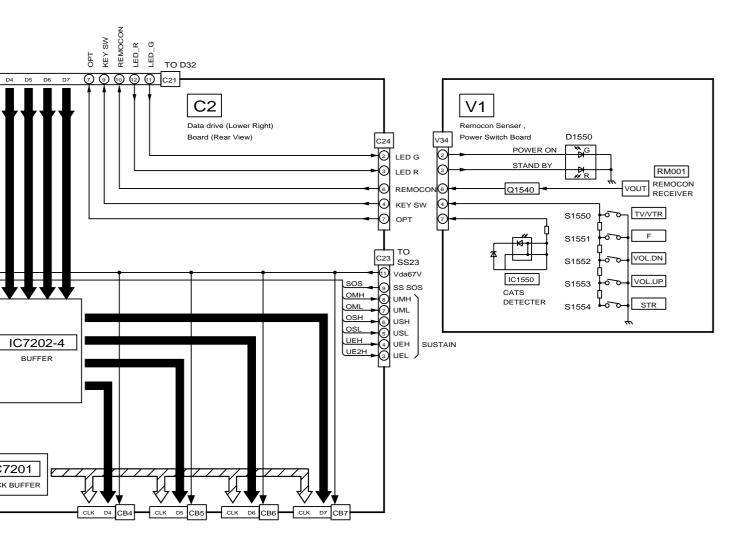
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)



### 15.41. C1, C2 and V1-Board Block Diagram

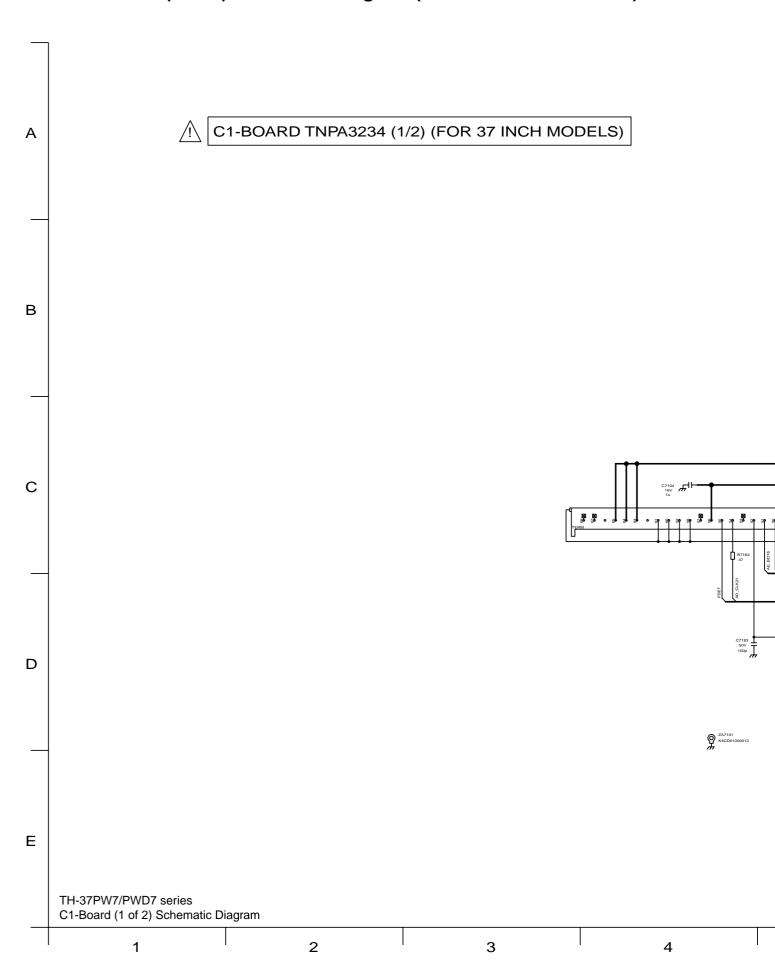


TH-37/42PW7 series TH-37/42PWD7 series C1, C2 and V1-Board Block Diagram

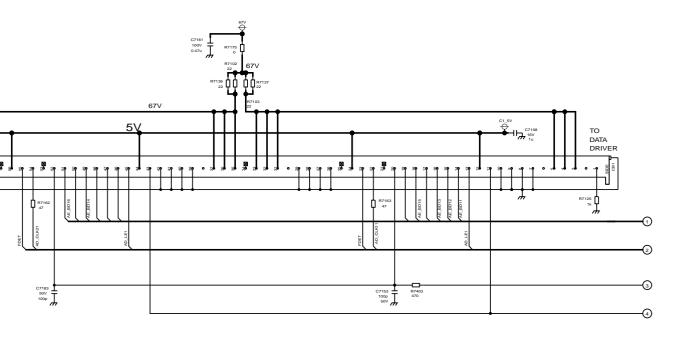


TH-37/42PW7 series TH-37/42PWD7 series C1, C2 and V1-Board Block Diagram

# 15.42. C1-Board (1 of 2) Schematic Diagram (TH-37PW7/PWD7 series)





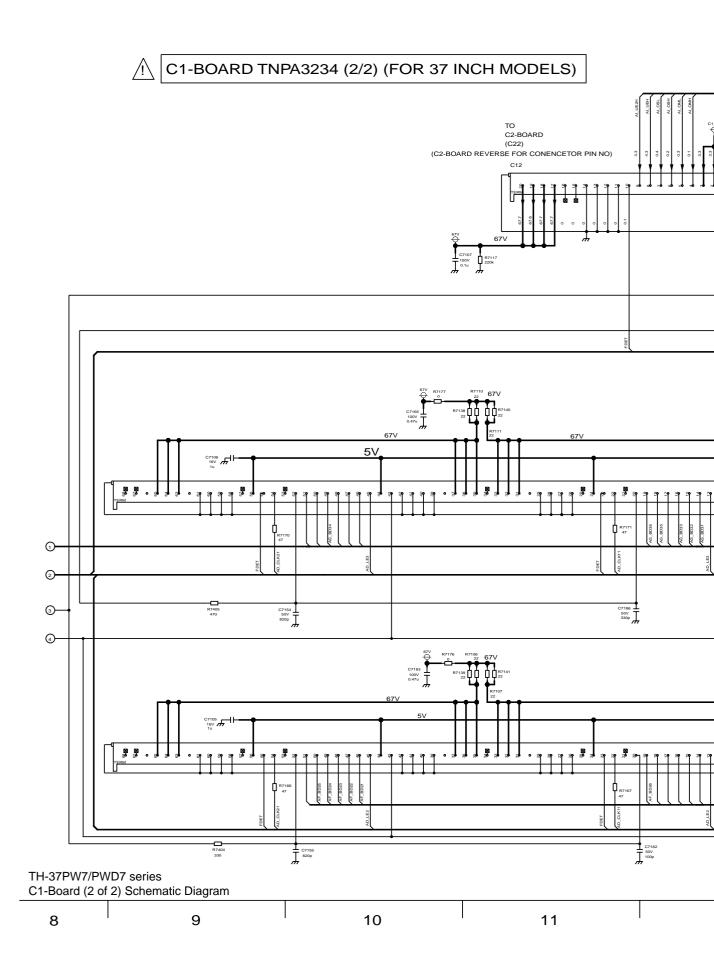


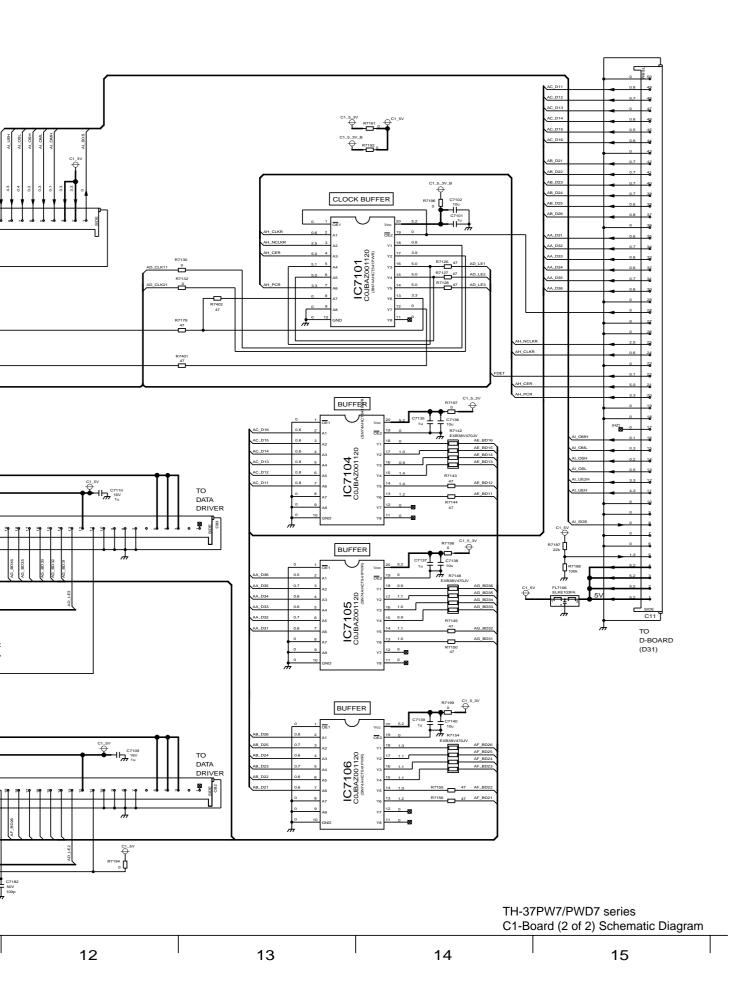




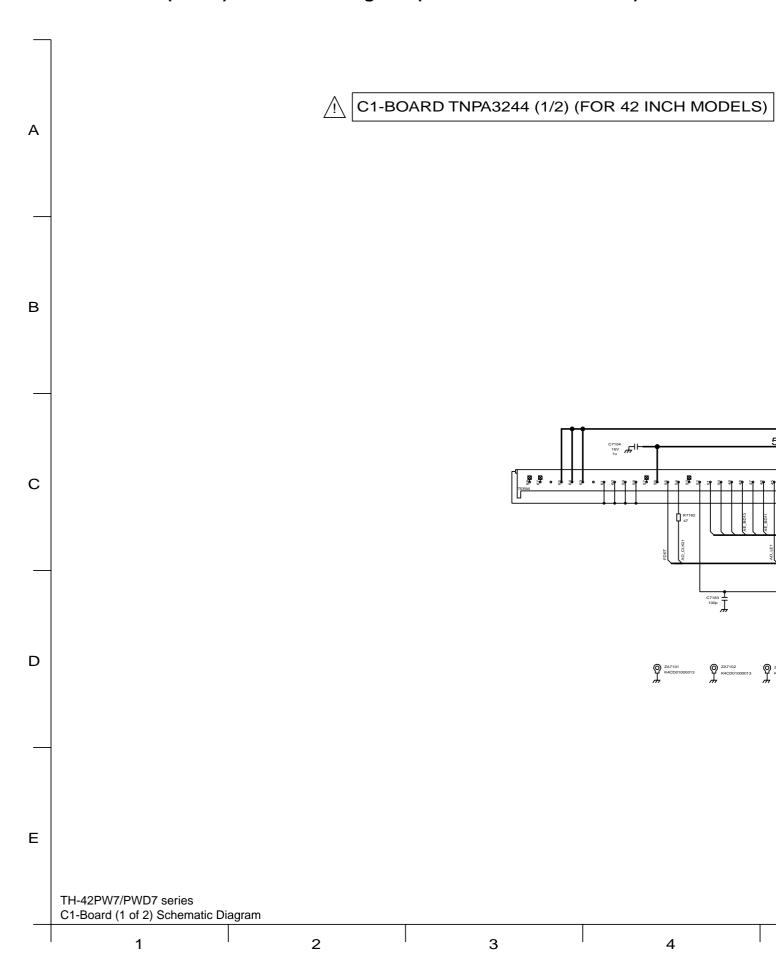


### 15.43. C1-Board (2 of 2) Schematic Diagram (TH-37PW7/PWD7 series)



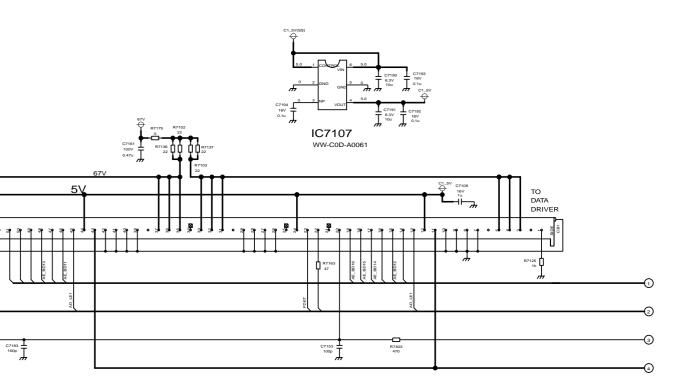


# 15.44. C1-Board (1 of 2) Schematic Diagram (TH-42PW7/PWD7 series)

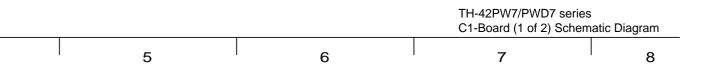




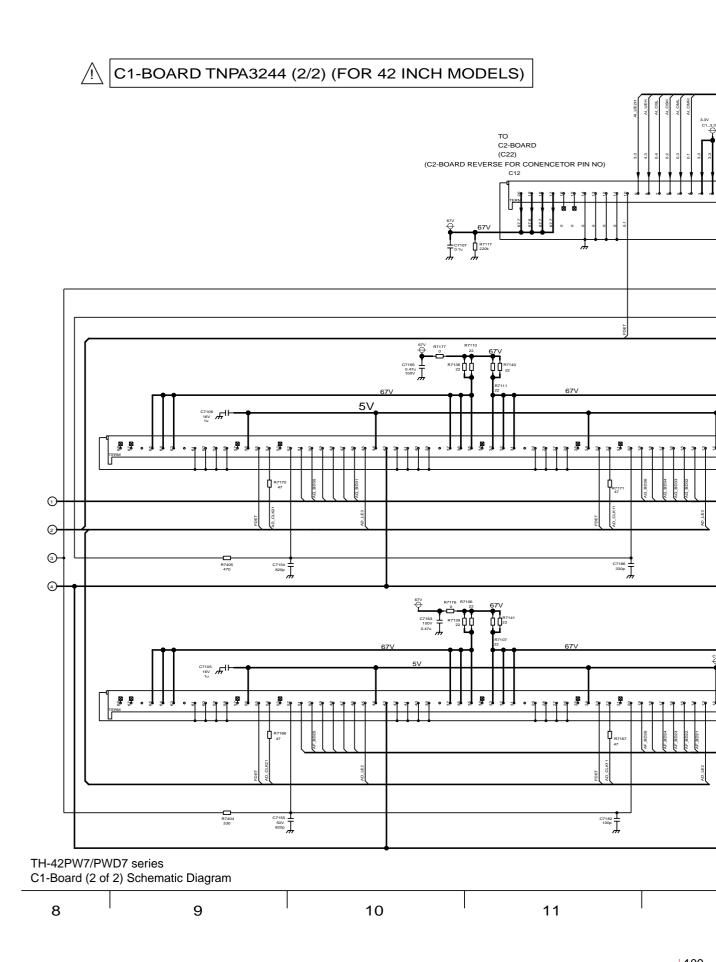
#### (IODELS)

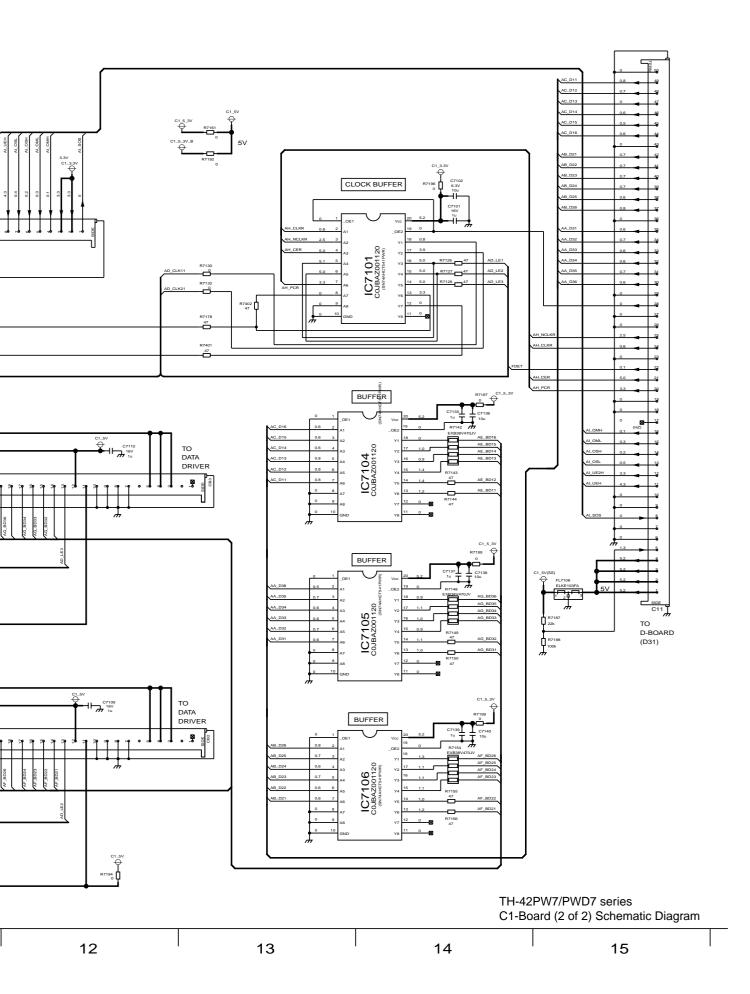




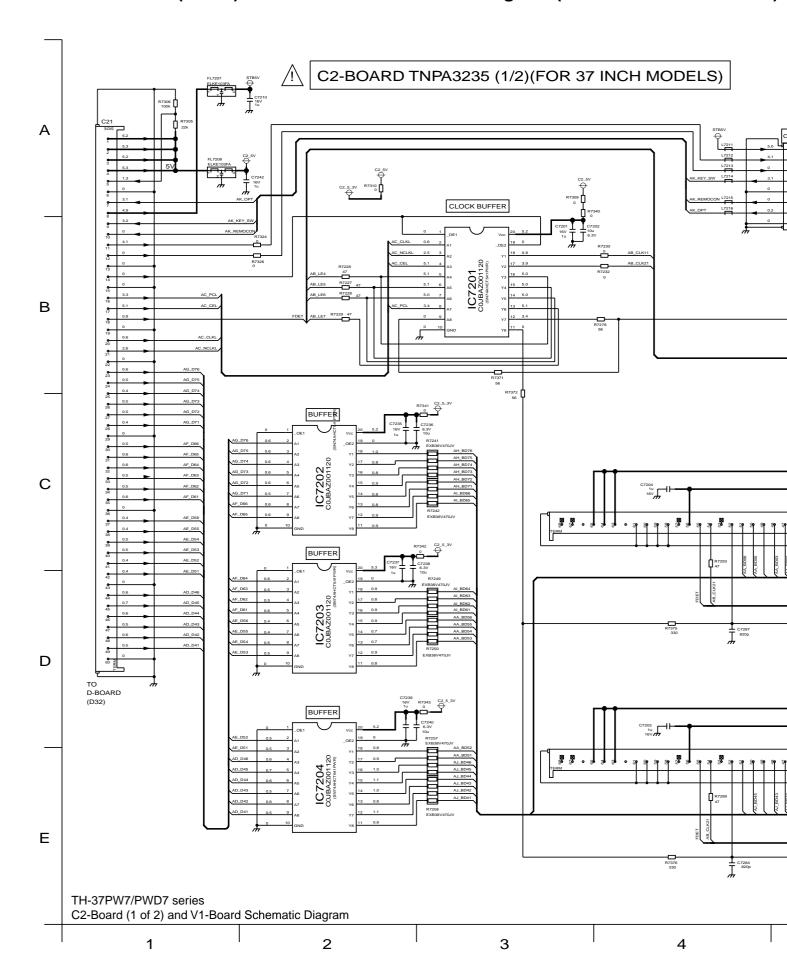


### 15.45. C1-Board (2 of 2) Schematic Diagram (TH-42PW7/PWD7 series)

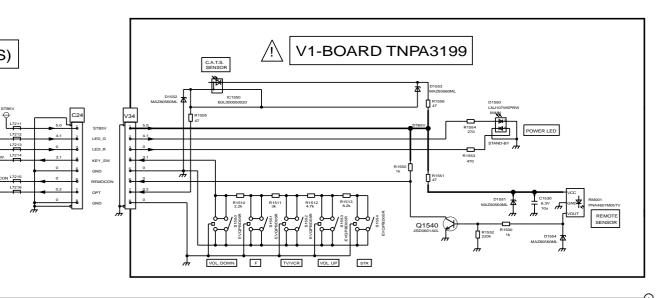


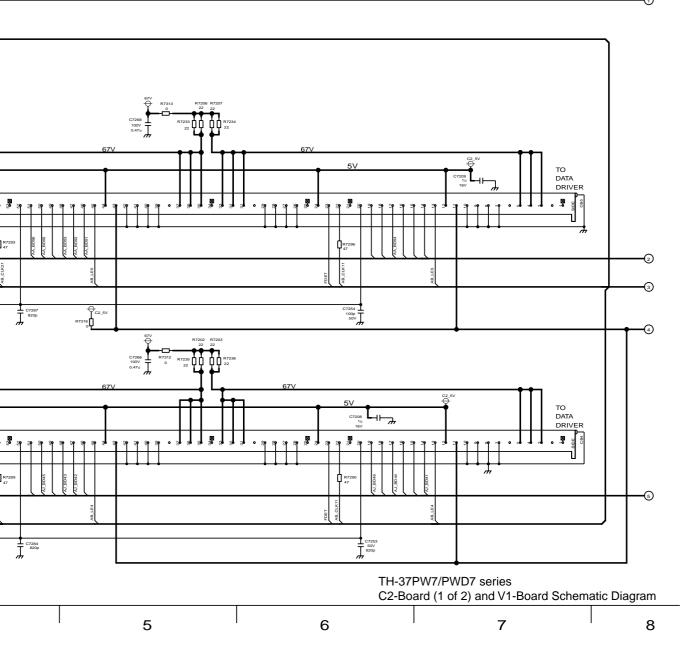


### 15.46. C2-Board (1 of 2) and V1-Board Schematic Diagram (TH-37PW7/PWD7 series)

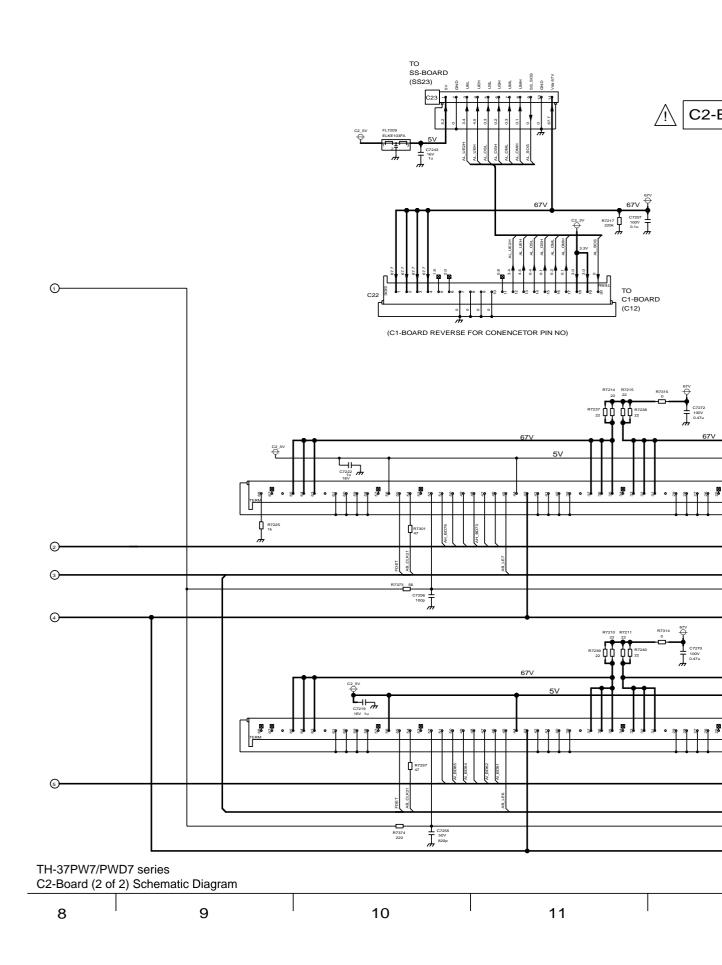


#### series)





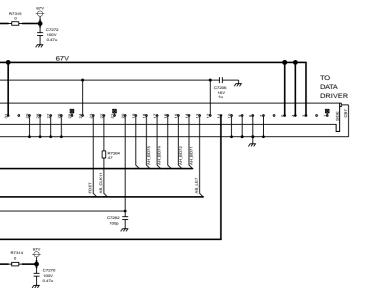
# 15.47. C2-Board (2 of 2) Schematic Diagram (TH-37PW7/PWD7 series)

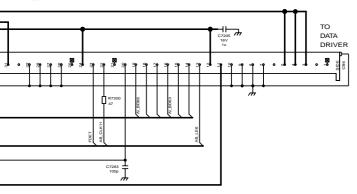




# C2-BOARD TNPA3235 (2/2)(FOR 37 INCH MODELS)





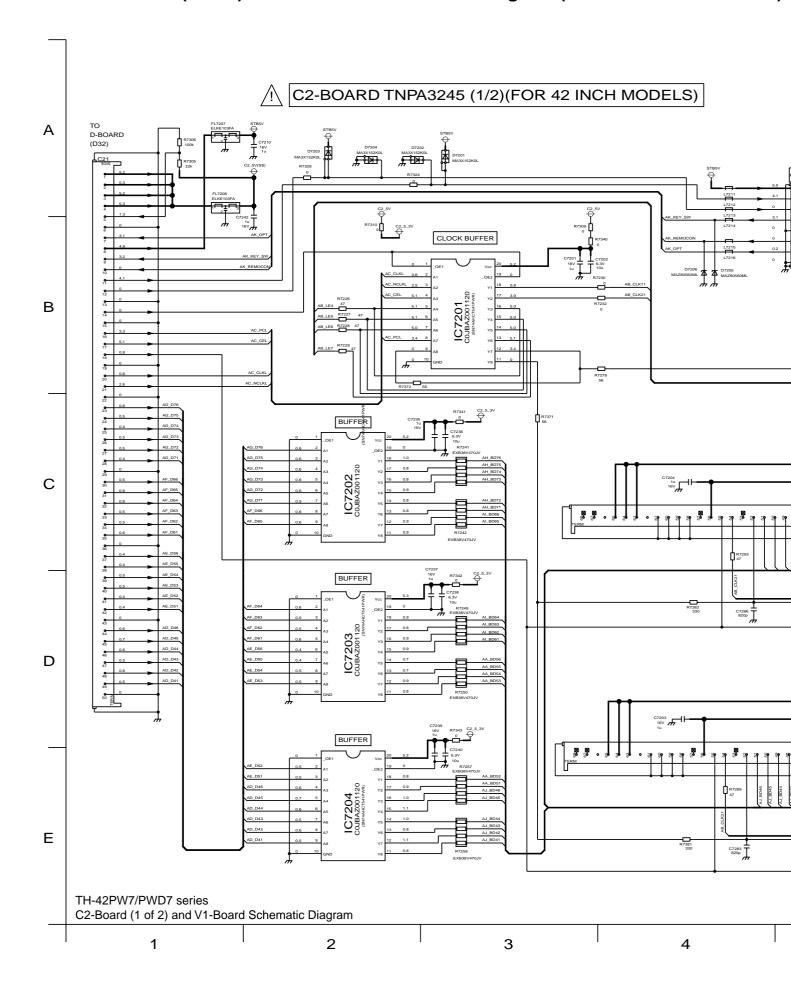


TH-37PW7/PWD7 series
C2-Board (2 of 2) Schematic Diagram

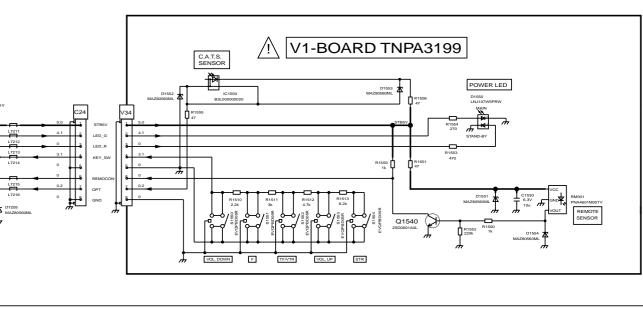
12 13 14 15

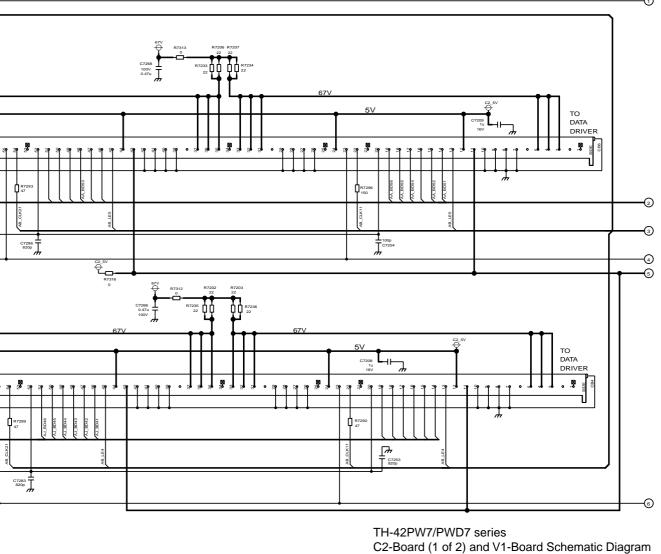
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## 15.48. C2-Board (1 of 2) and V1-Board Schematic Diagram (TH-42PW7/PWD7 series)

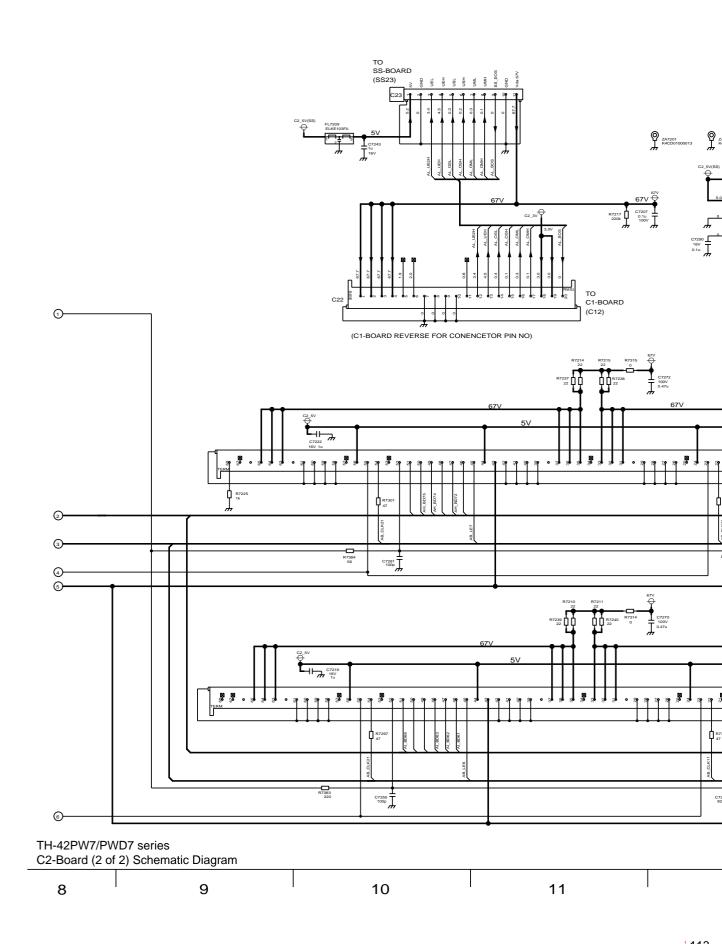


## series)

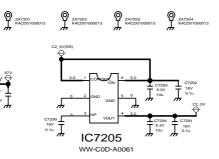


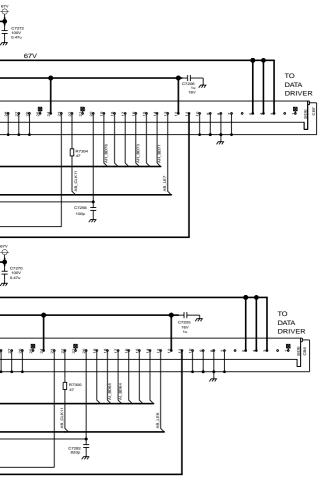


## 15.49. C2-Board (2 of 2) Schematic Diagram (TH-42PW7/PWD7 series)

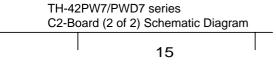


# C2-BOARD TNPA3245 (2/2)(FOR 42 INCH MODELS)





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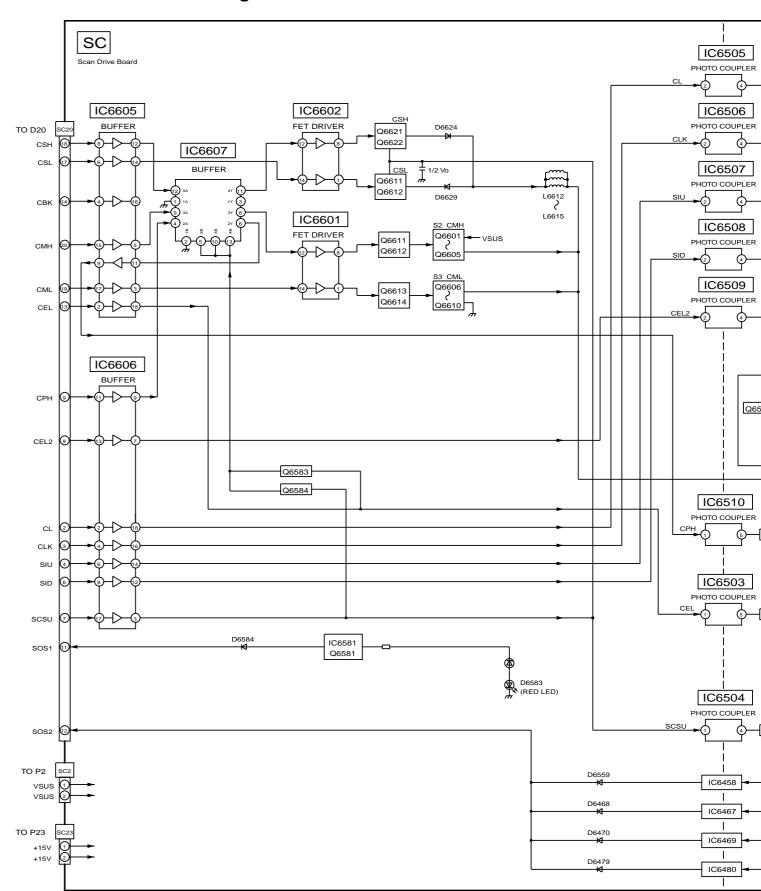


14

113

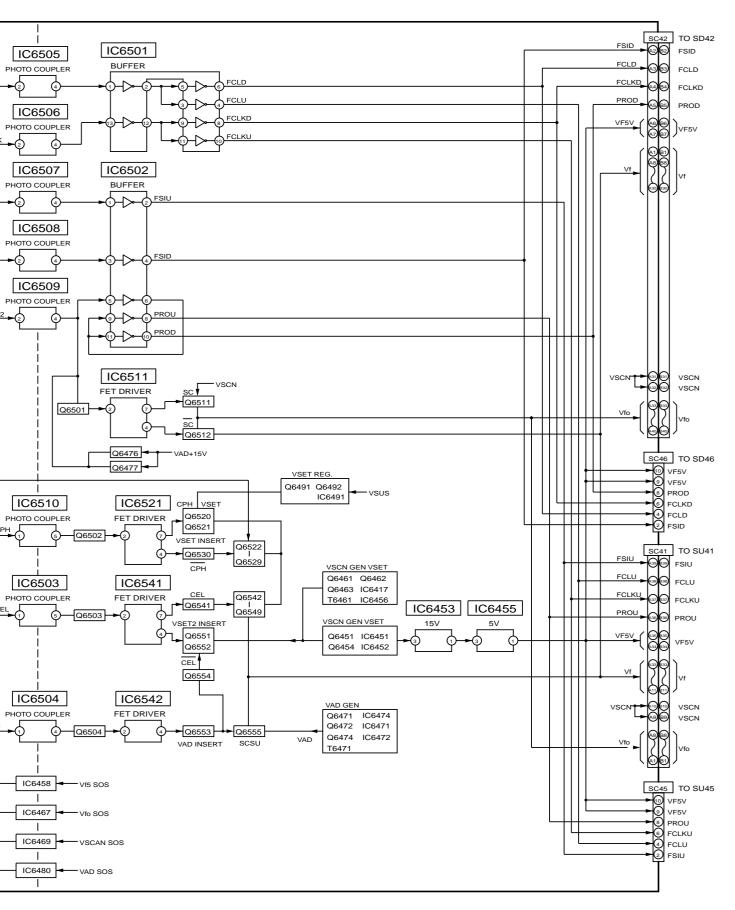
12

## 15.50. SC-Board Block Diagram



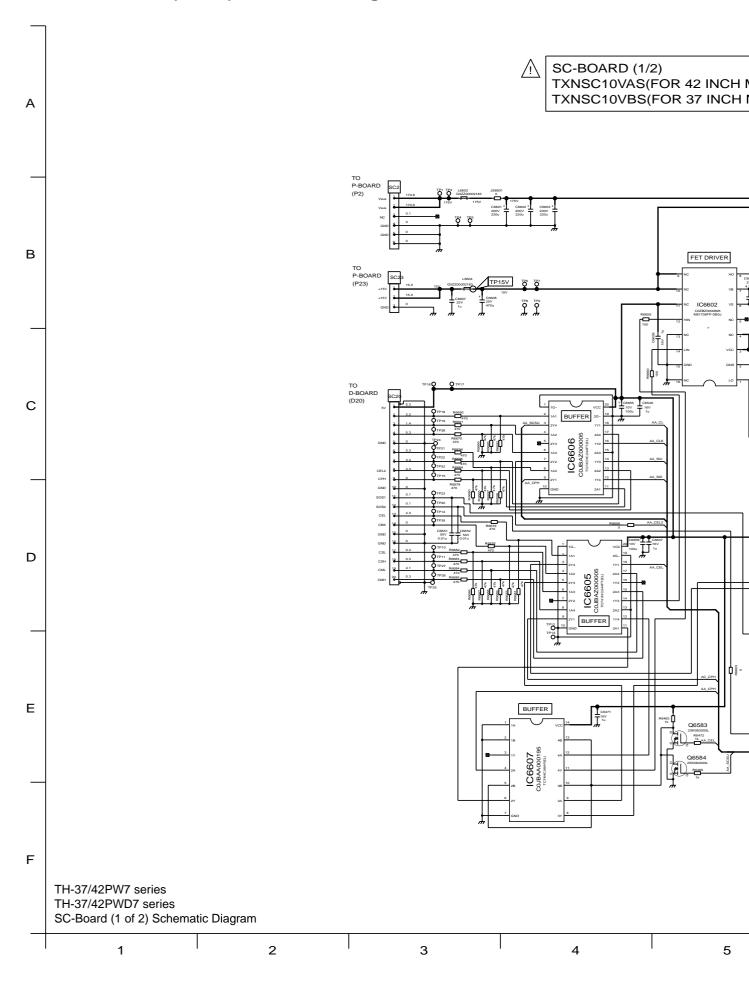
TH-37/42PW7 series TH-37/42PWD7 series SC-Board Block Diagram



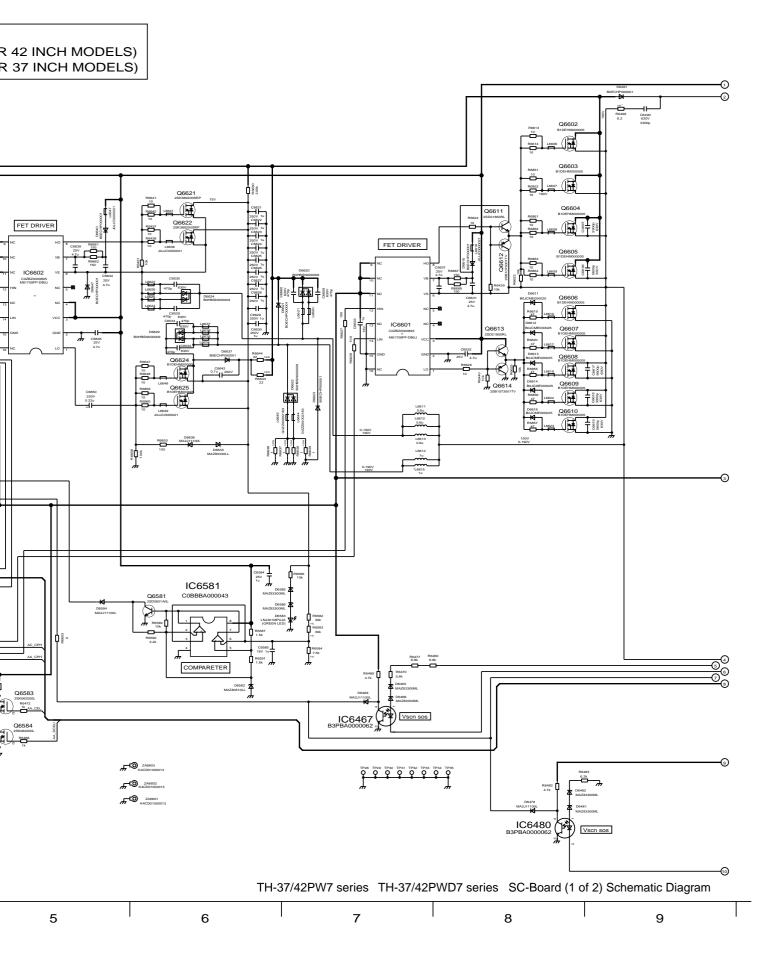


TH-37/42PW7 series TH-37/42PWD7 series SC-Board Block Diagram

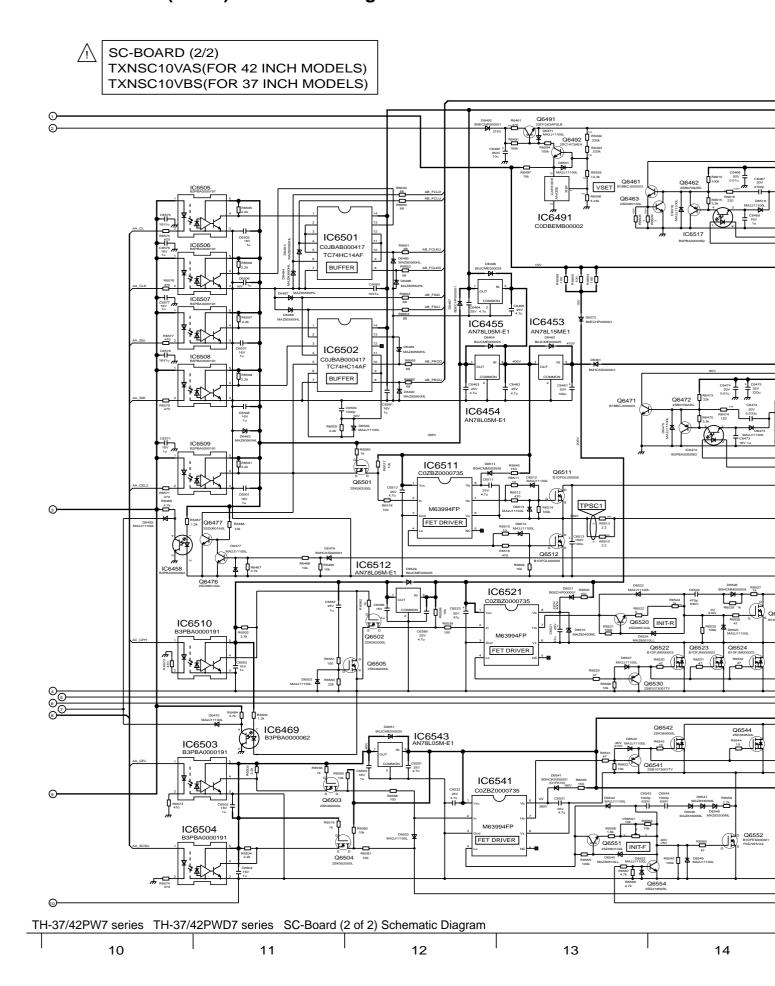
## 15.51. SC-Board (1 of 2) Schematic Diagram



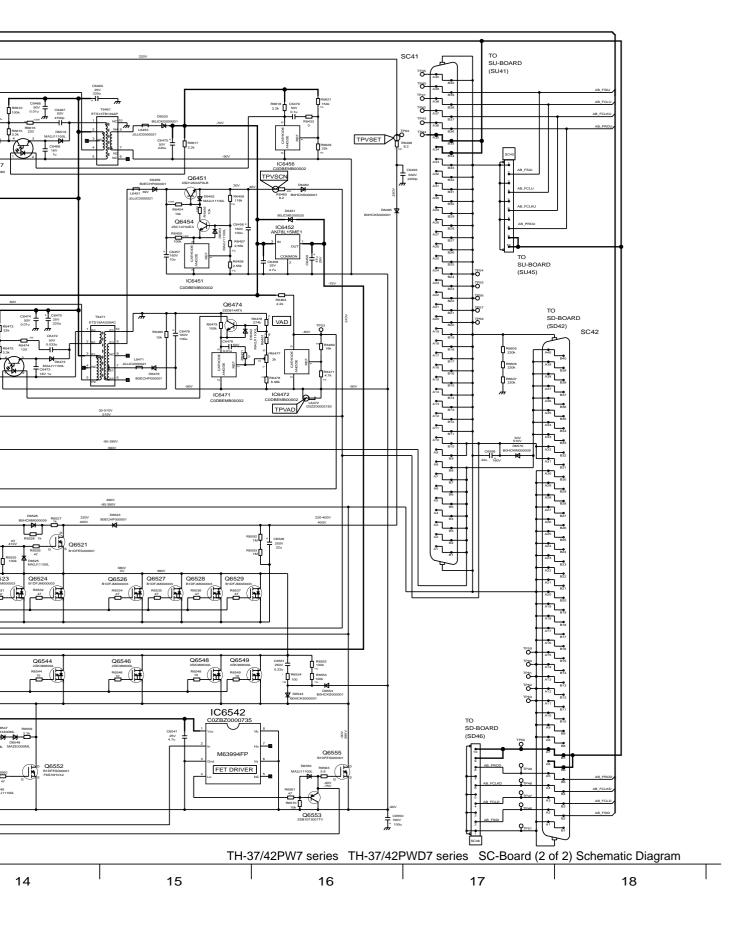




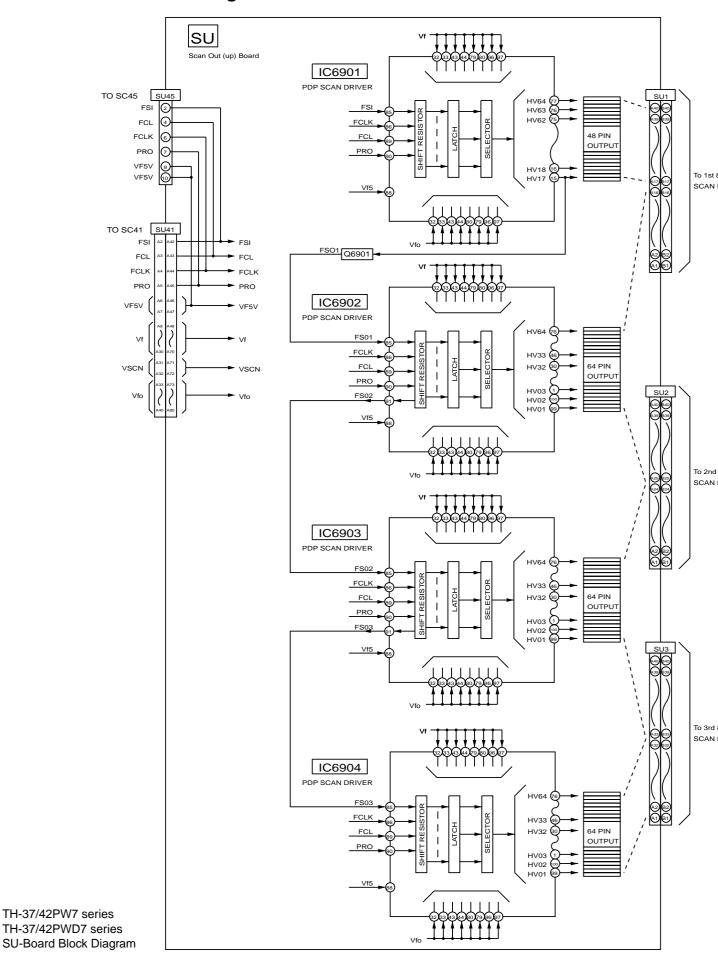
## 15.52. SC-Board (2 of 2) Schematic Diagram

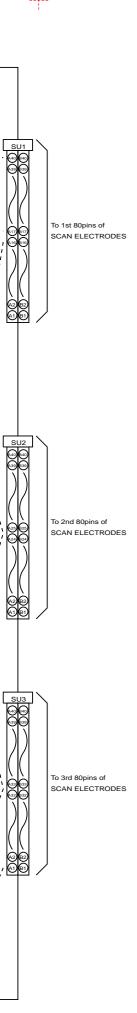






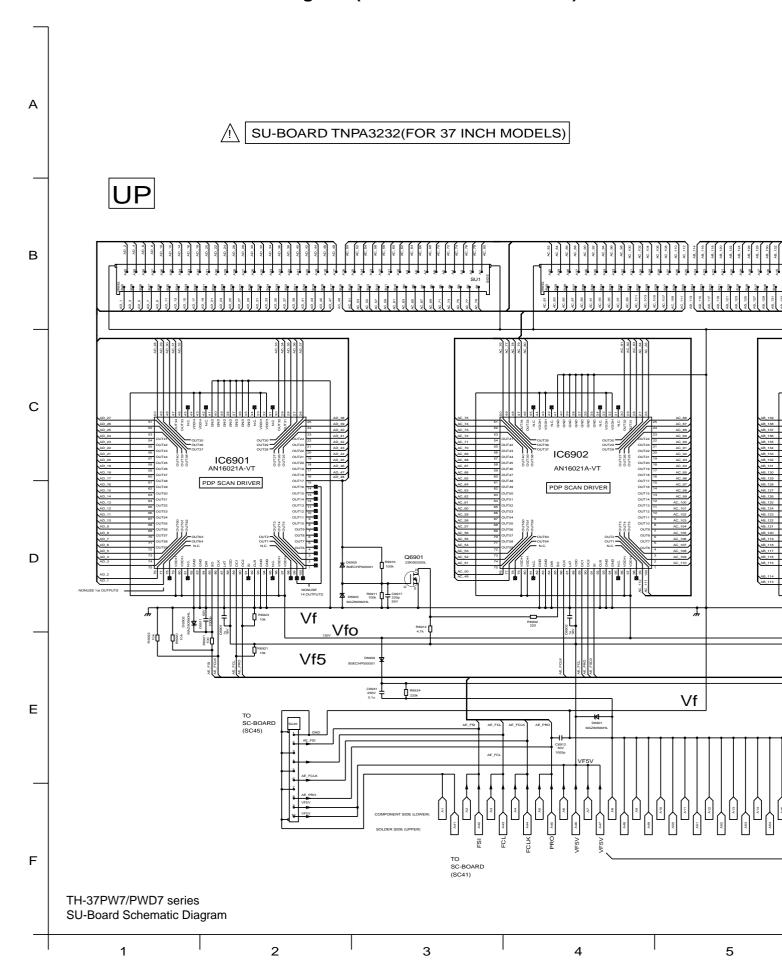
### 15.53. SU-Board Block Diagram

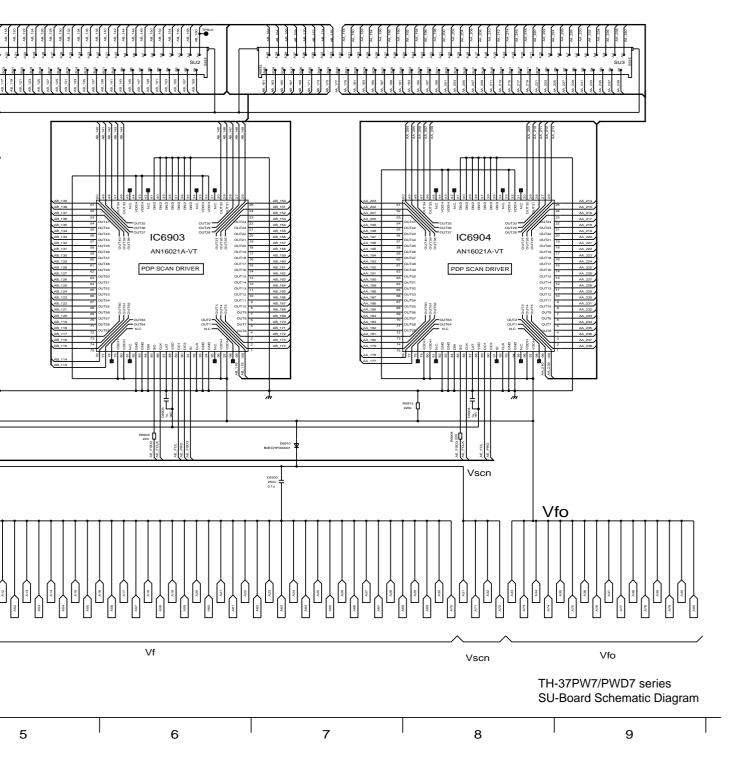




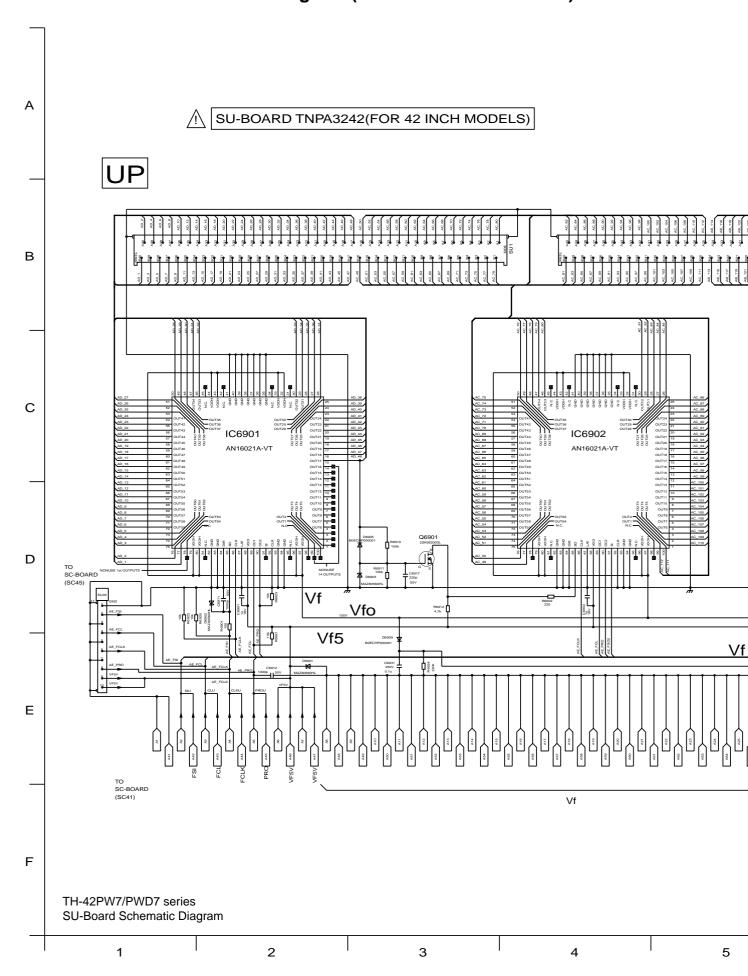
TH-37/42PW7 series TH-37/42PWD7 series SU-Board Block Diagram

# 15.54. SU-Board Schematic Diagram (TH-37PW7/PWD7 series)

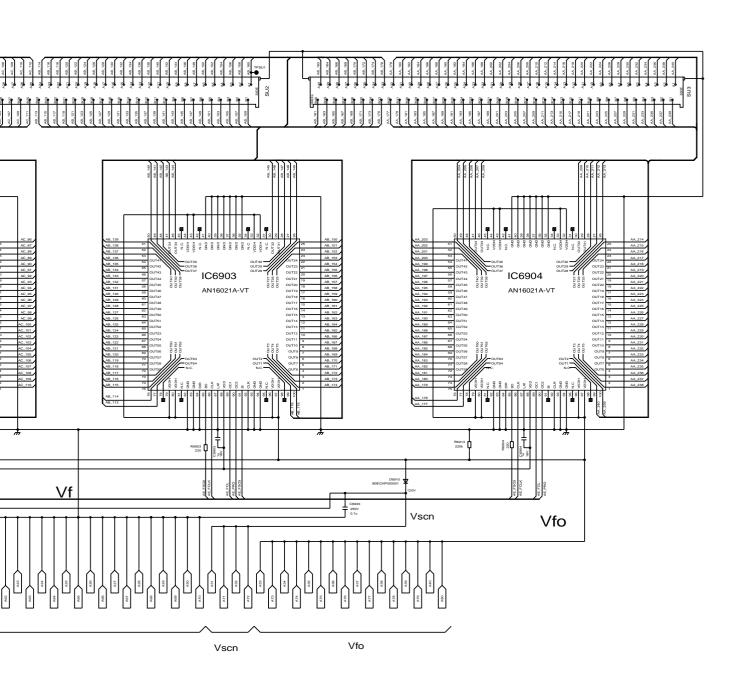


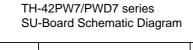


## 15.55. SU-Board Schematic Diagram (TH-42PW7/PWD7 series)



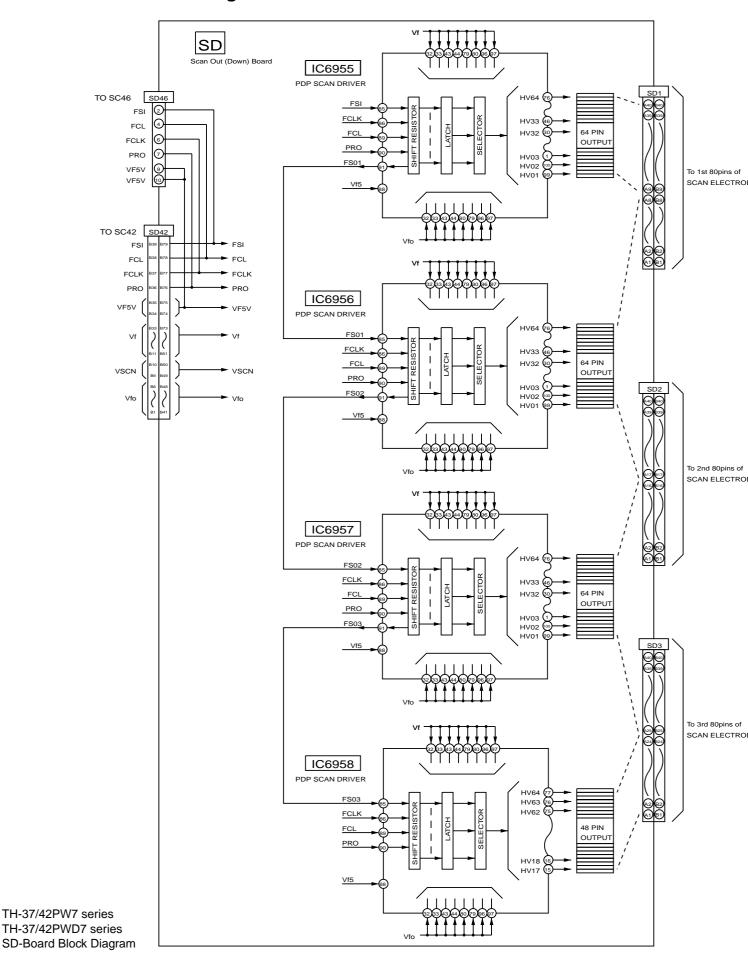






5 6 7 8 9

### 15.56. SD-Board Block Diagram



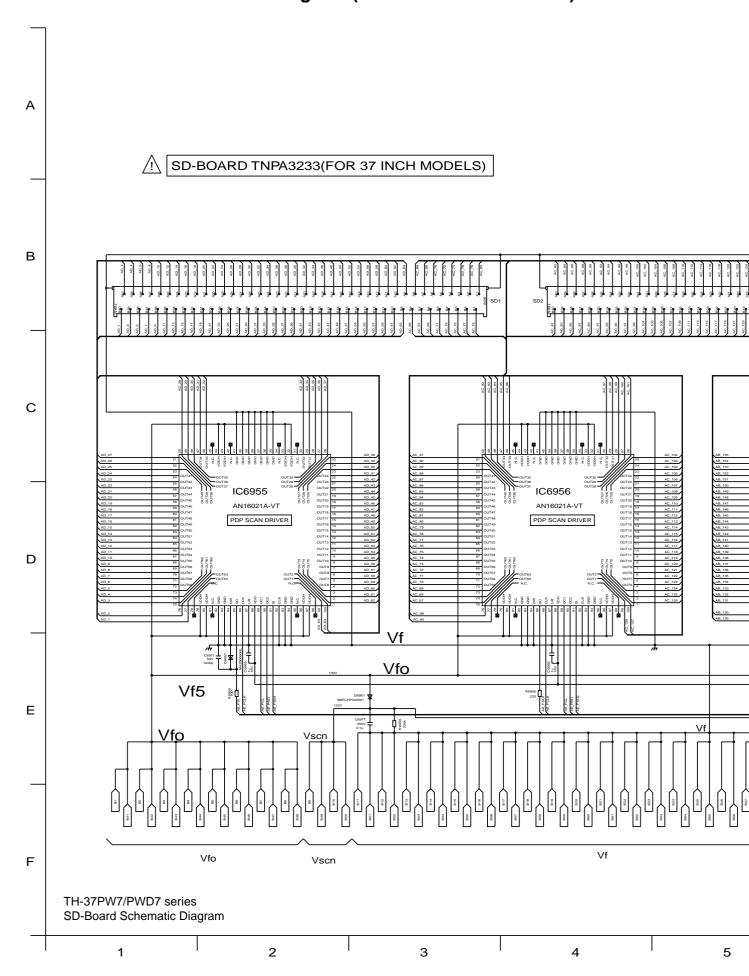


To 1st 80pins of SCAN ELECTRODES

To 2nd 80pins of SCAN ELECTRODES

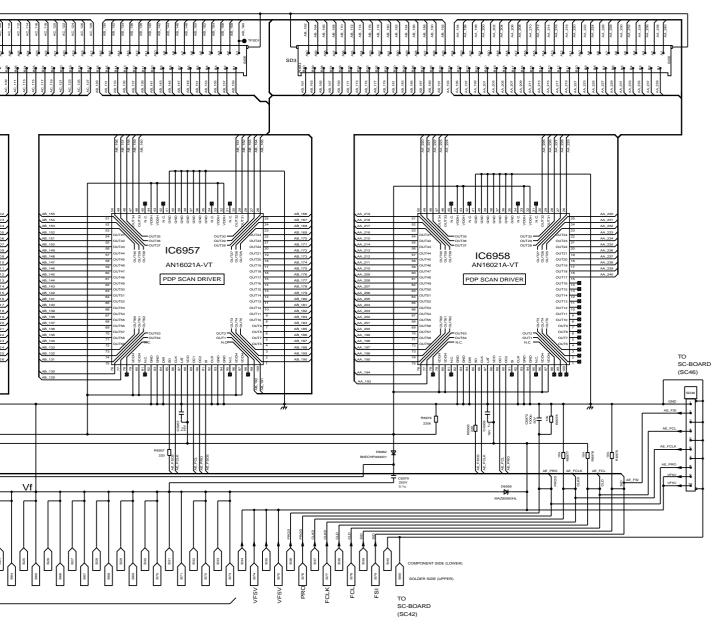
To 3rd 80pins of SCAN ELECTRODES

## 15.57. SD-Board Schematic Diagram (TH-37PW7/PWD7 series)





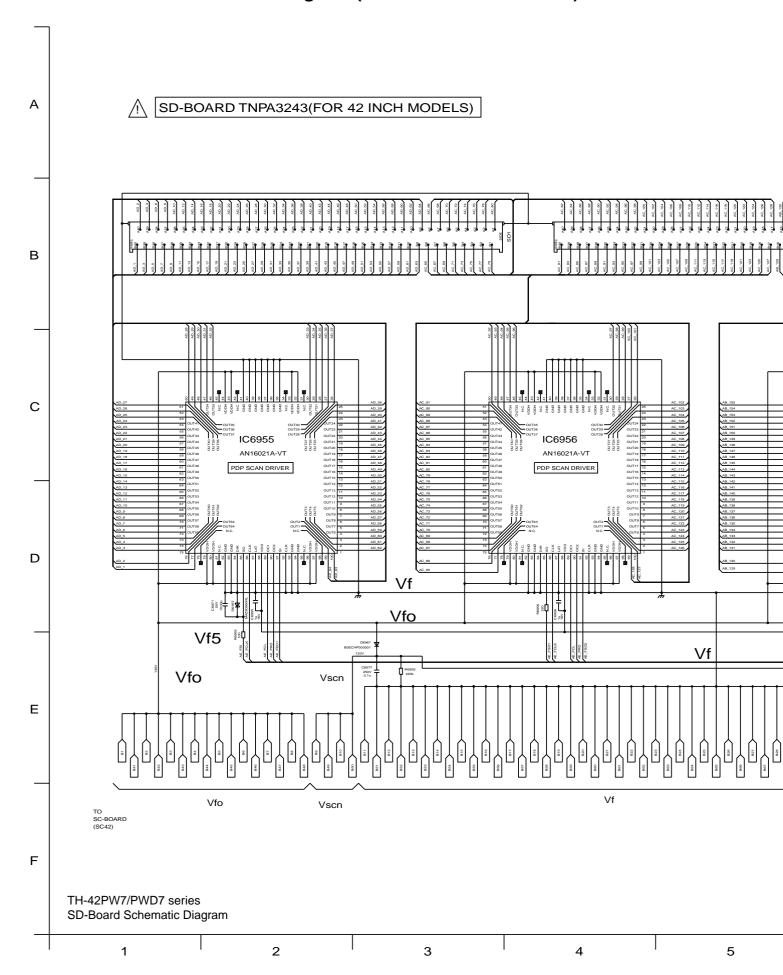




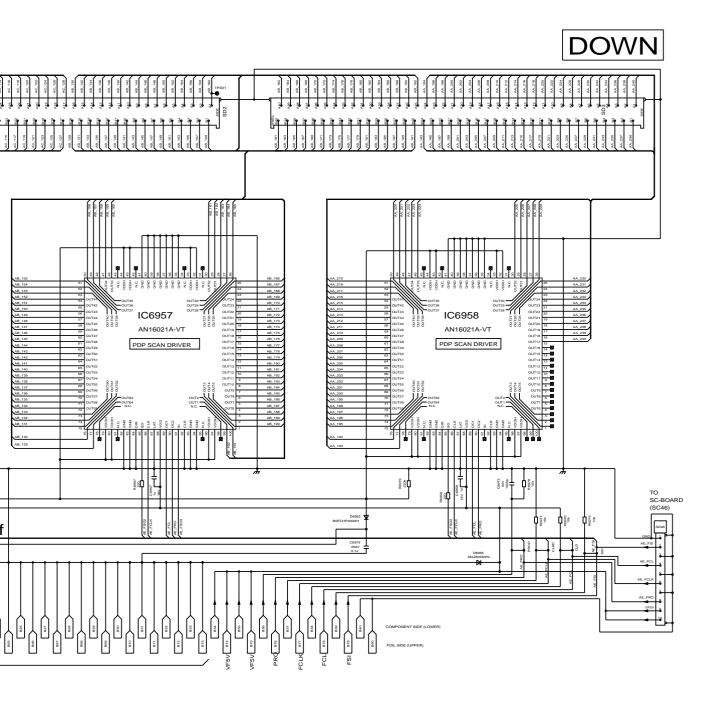
TH-37PW7/PWD7 series SD-Board Schematic Diagram

5 6 7 8 9

## 15.58. SD-Board Schematic Diagram (TH-42PW7/PWD7 series)





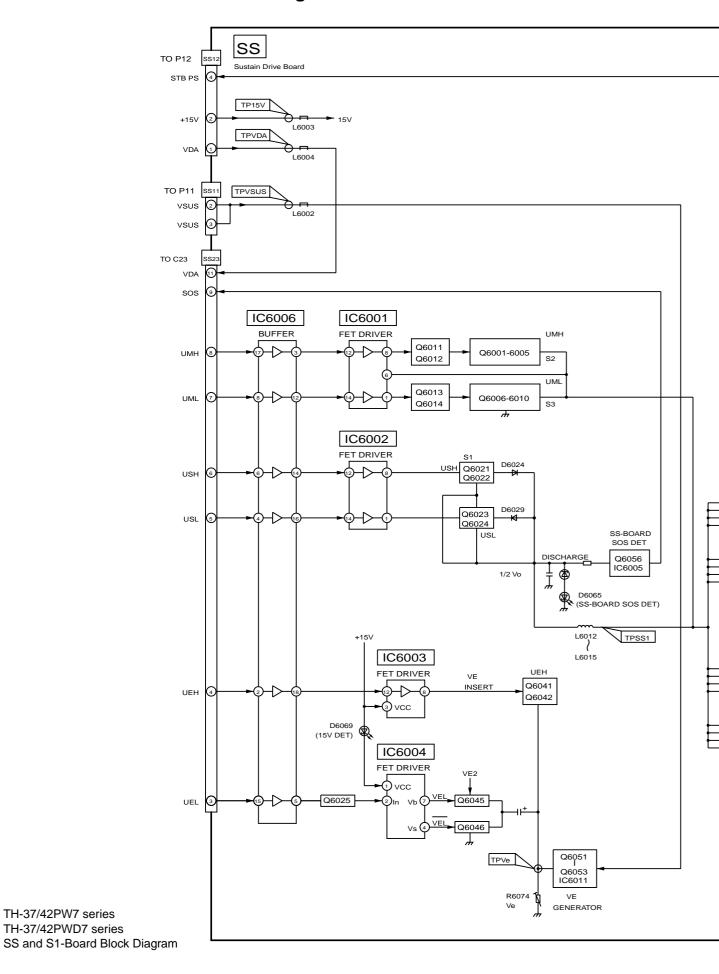


TH-42PW7/PWD7 series SD-Board Schematic Diagram

5 6 7 8 9

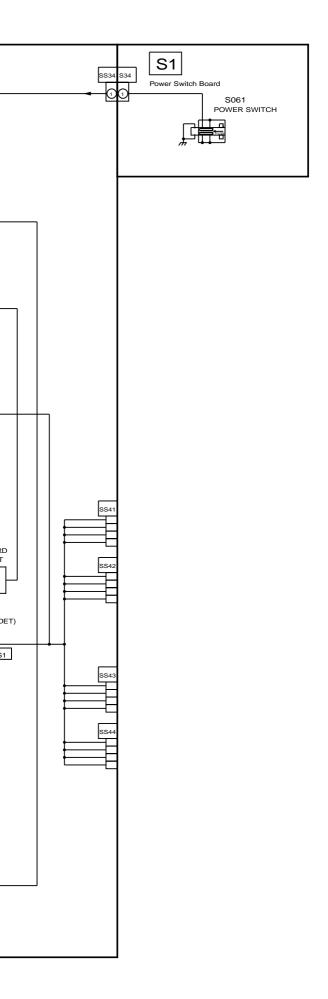
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## 15.59. SS and S1-Board Block Diagram



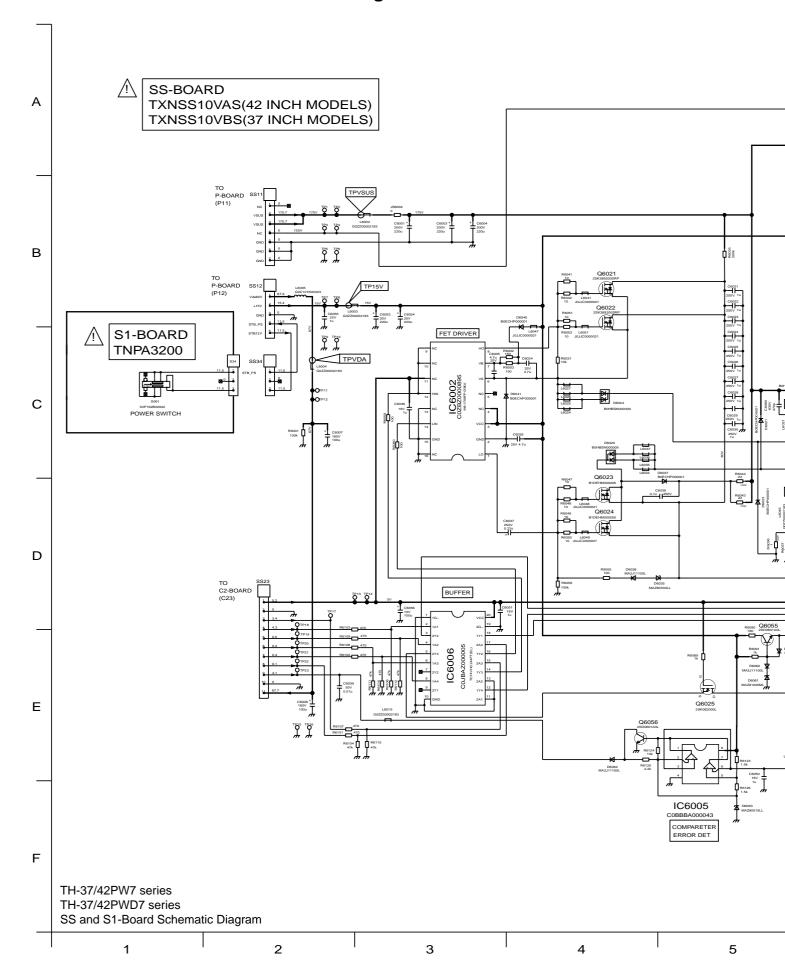
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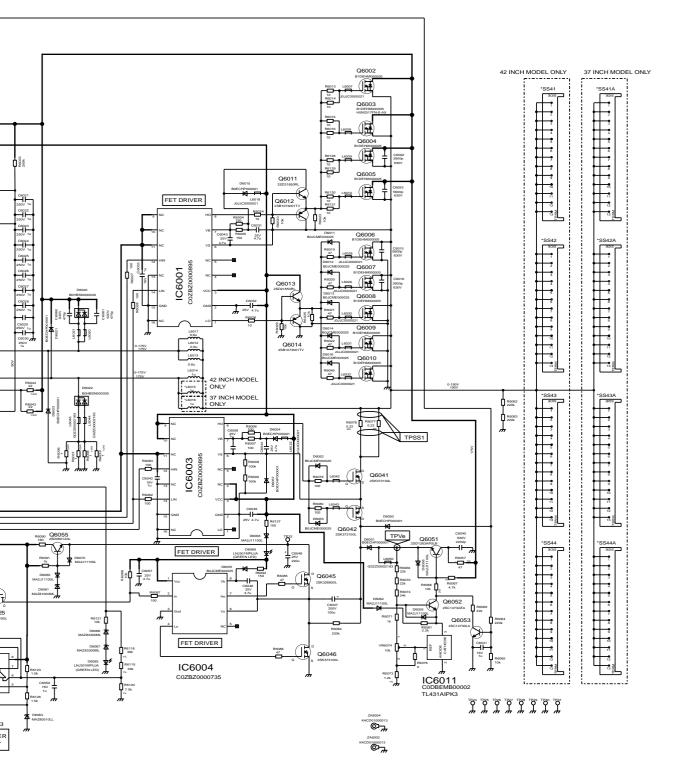


TH-37/42PW7 series TH-37/42PWD7 series SS and S1-Board Block Diagram

## 15.60. SS and S1-Board Schematic Diagram



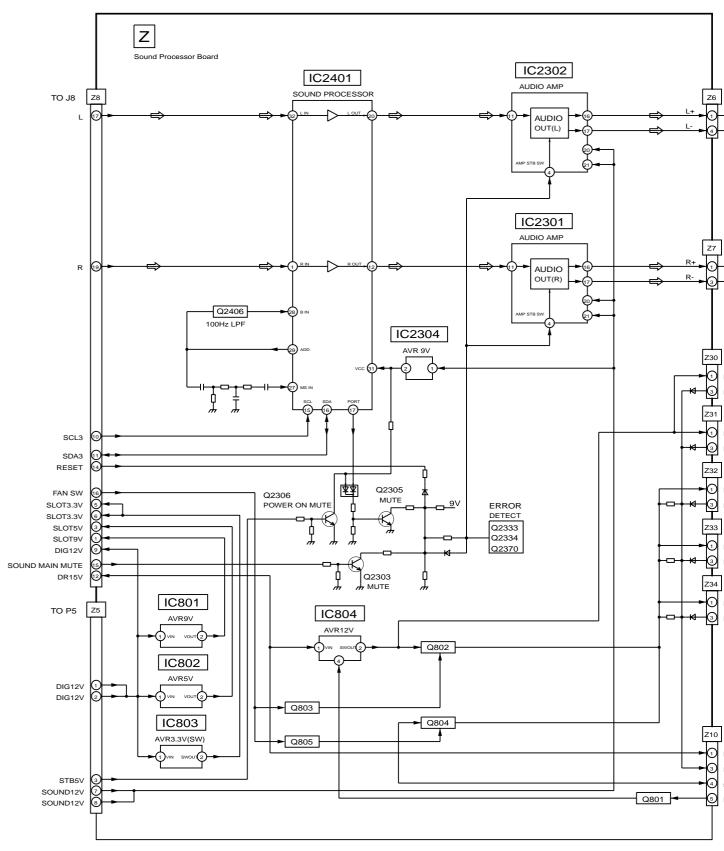




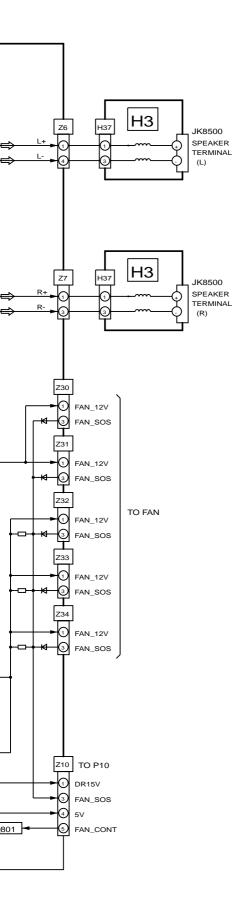
TH-37/42PW7 series
TH-37/42PWD7 series
SS and S1-Board Schematic Diagram

5 6 7 8 9

## 15.61. Z and H3-Board Block Diagram

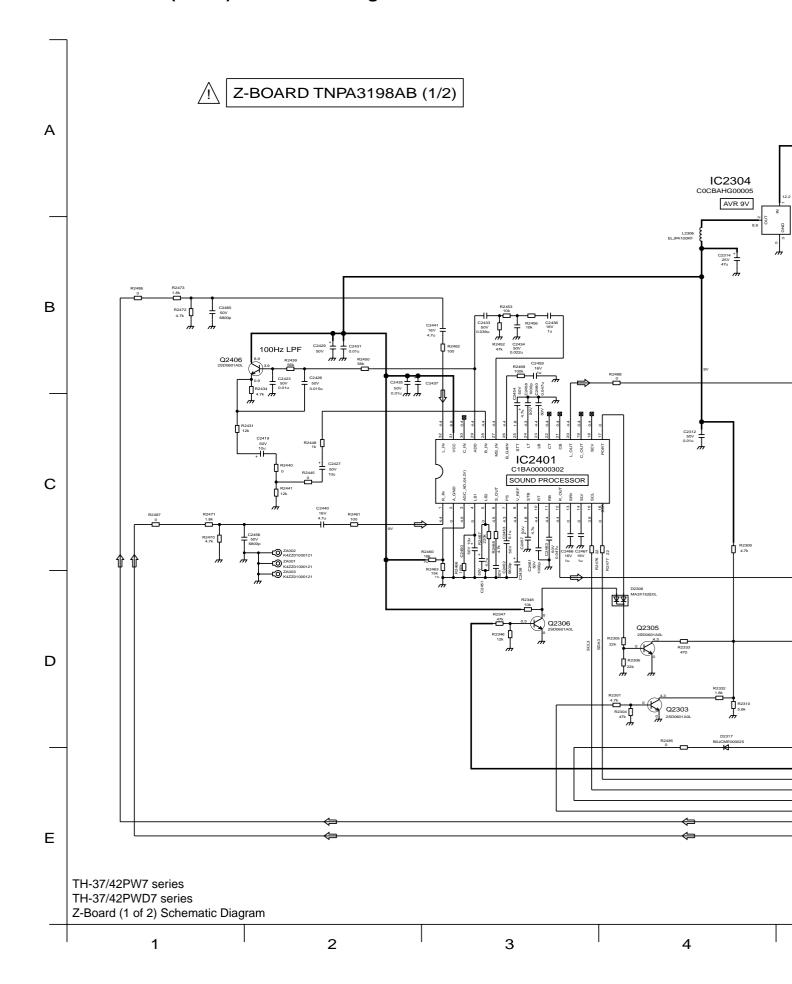


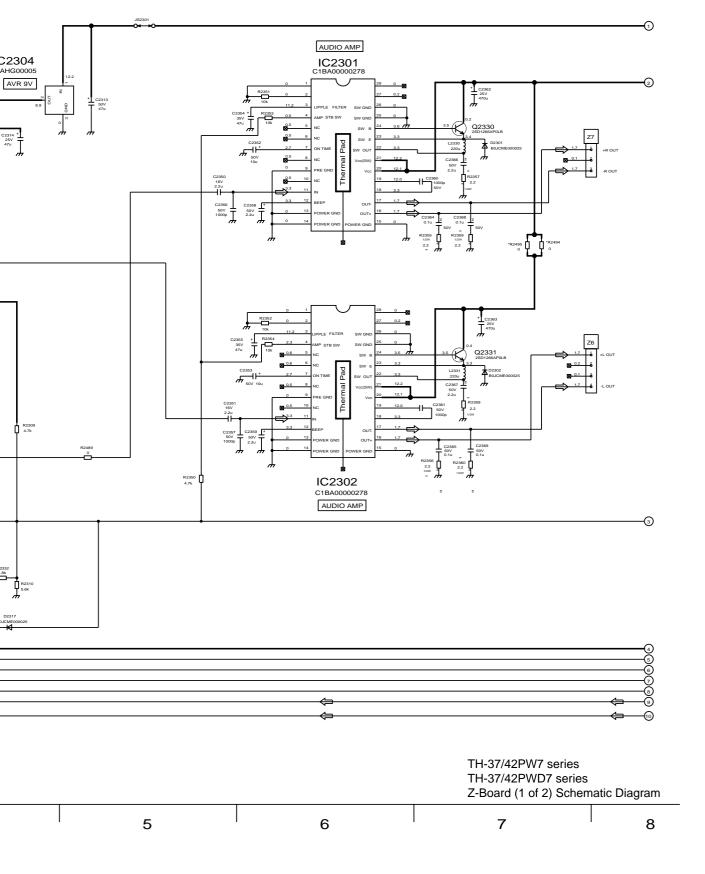
TH-37/42PW7 series TH-37/42PWD7 series Z and H3-Board Block Diagram



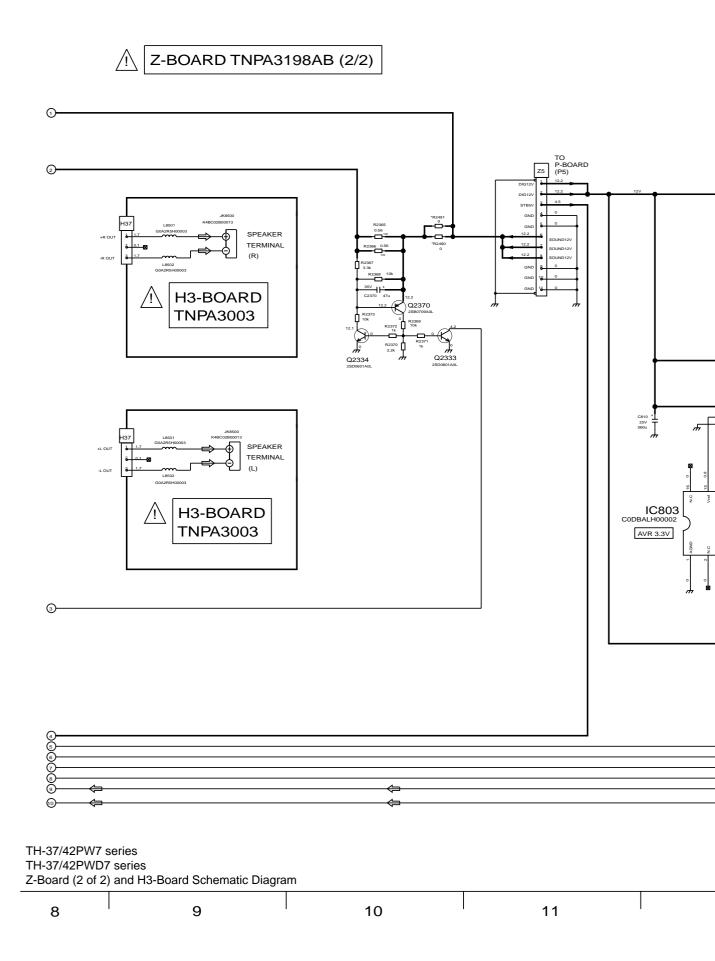
TH-37/42PW7 series TH-37/42PWD7 series Z and H3-Board Block Diagram

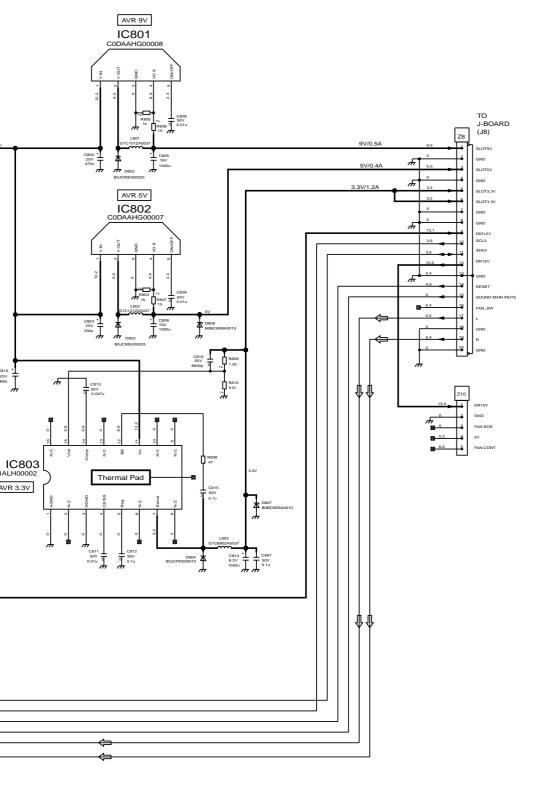
## 15.62. Z-Board (1 of 2) Schematic Diagram





# 15.63. Z-Board (2 of 2) and H3-Board Schematic Diagram



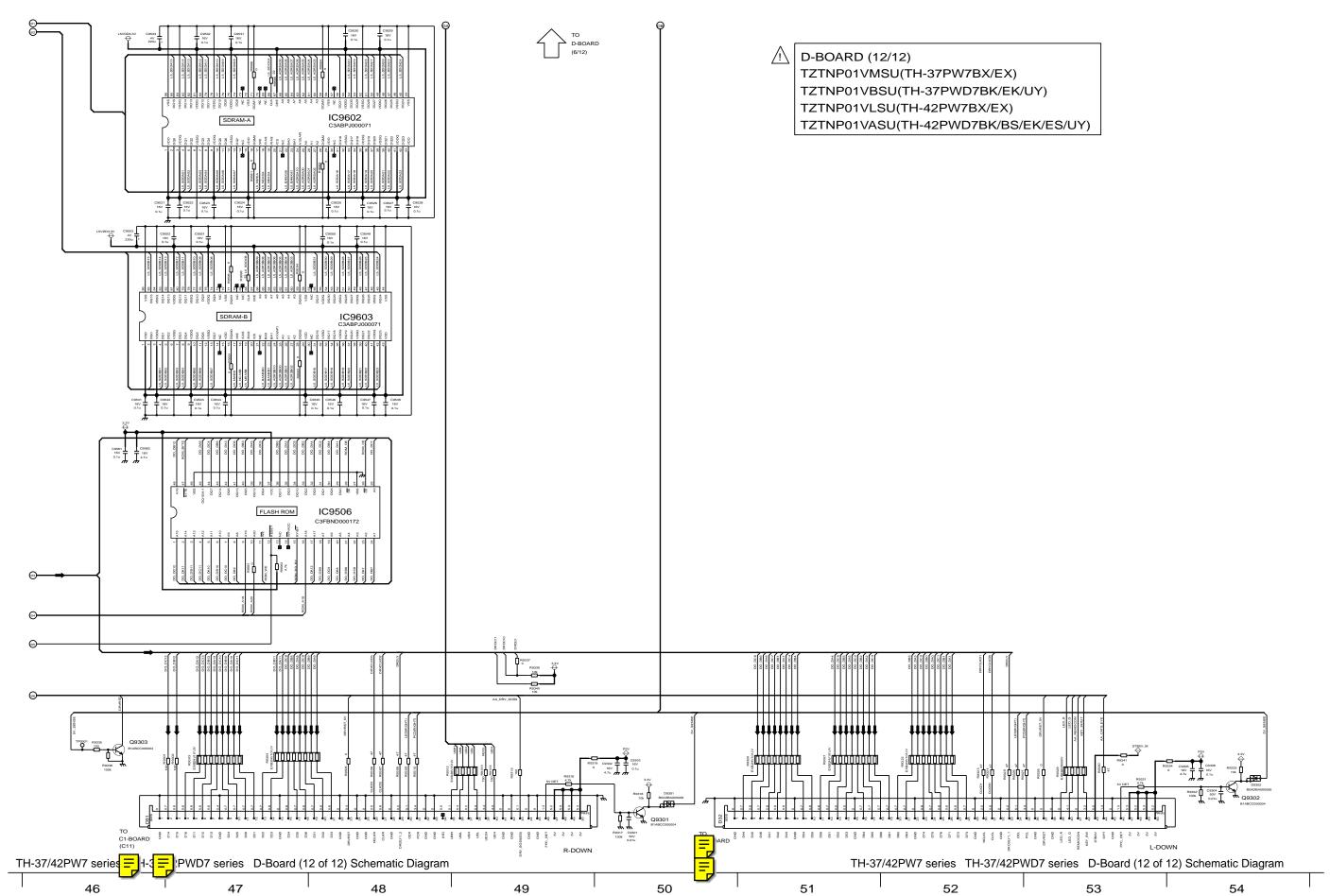


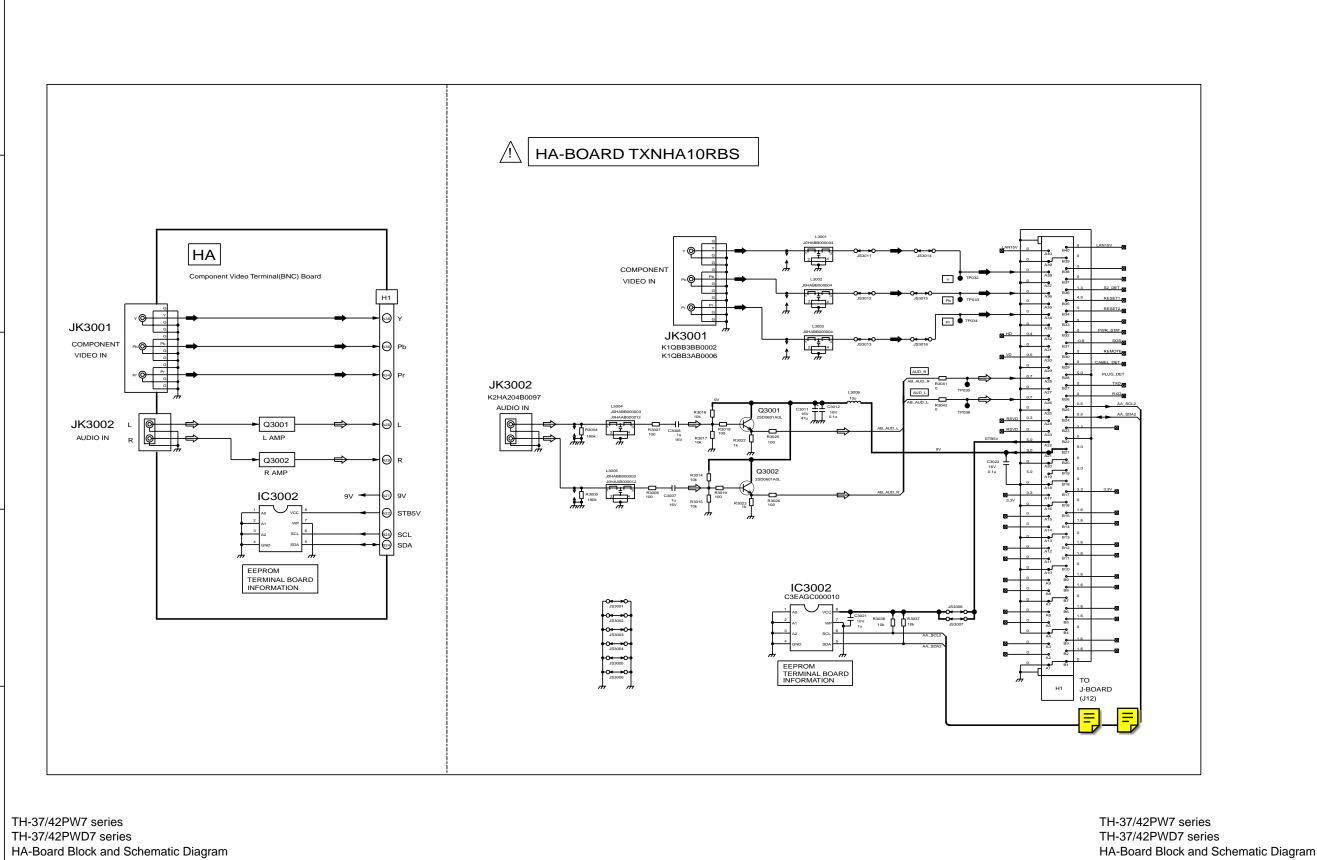
13

TH-37/42PW7 series
TH-37/42PWD7 series
Z-Board (2 of 2) and H3-Board Schematic Diagram

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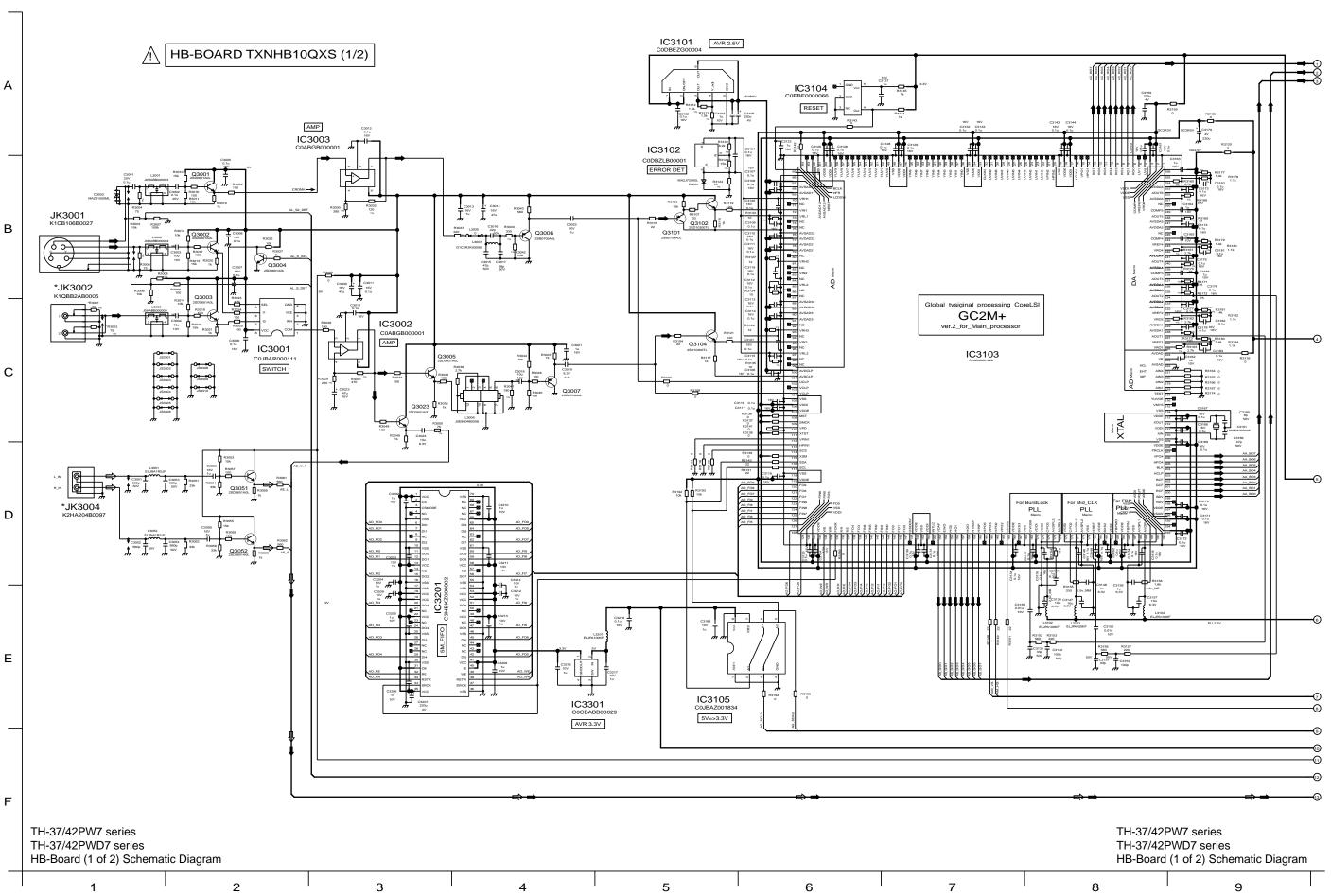
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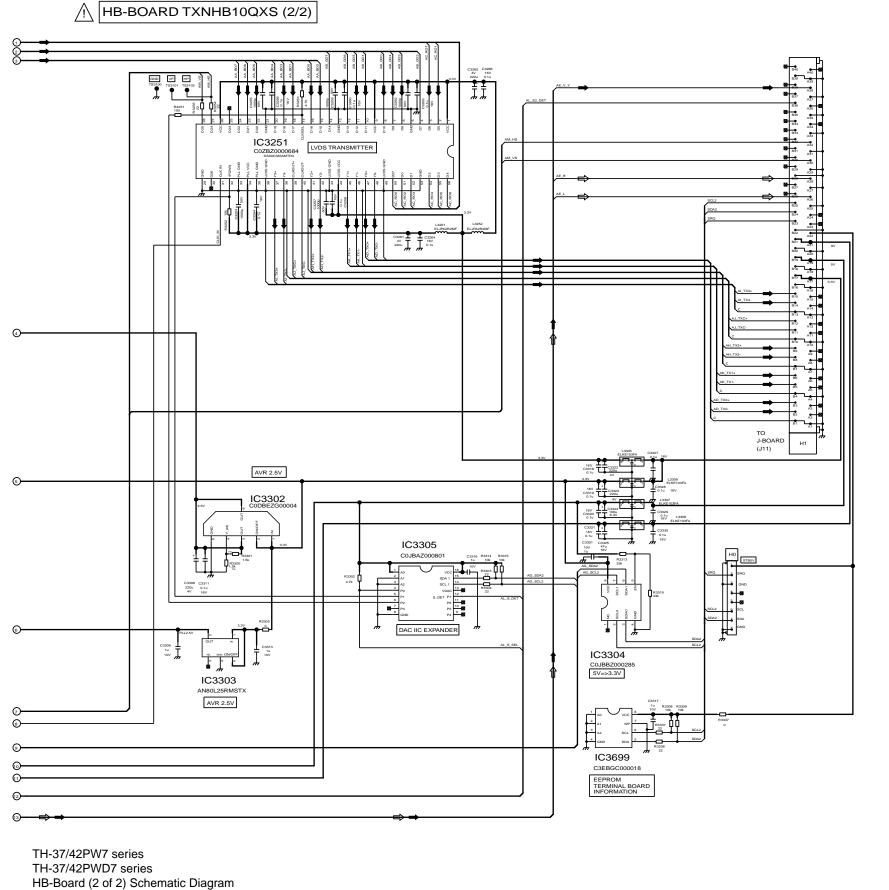
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1 2 3 4 5 6 7

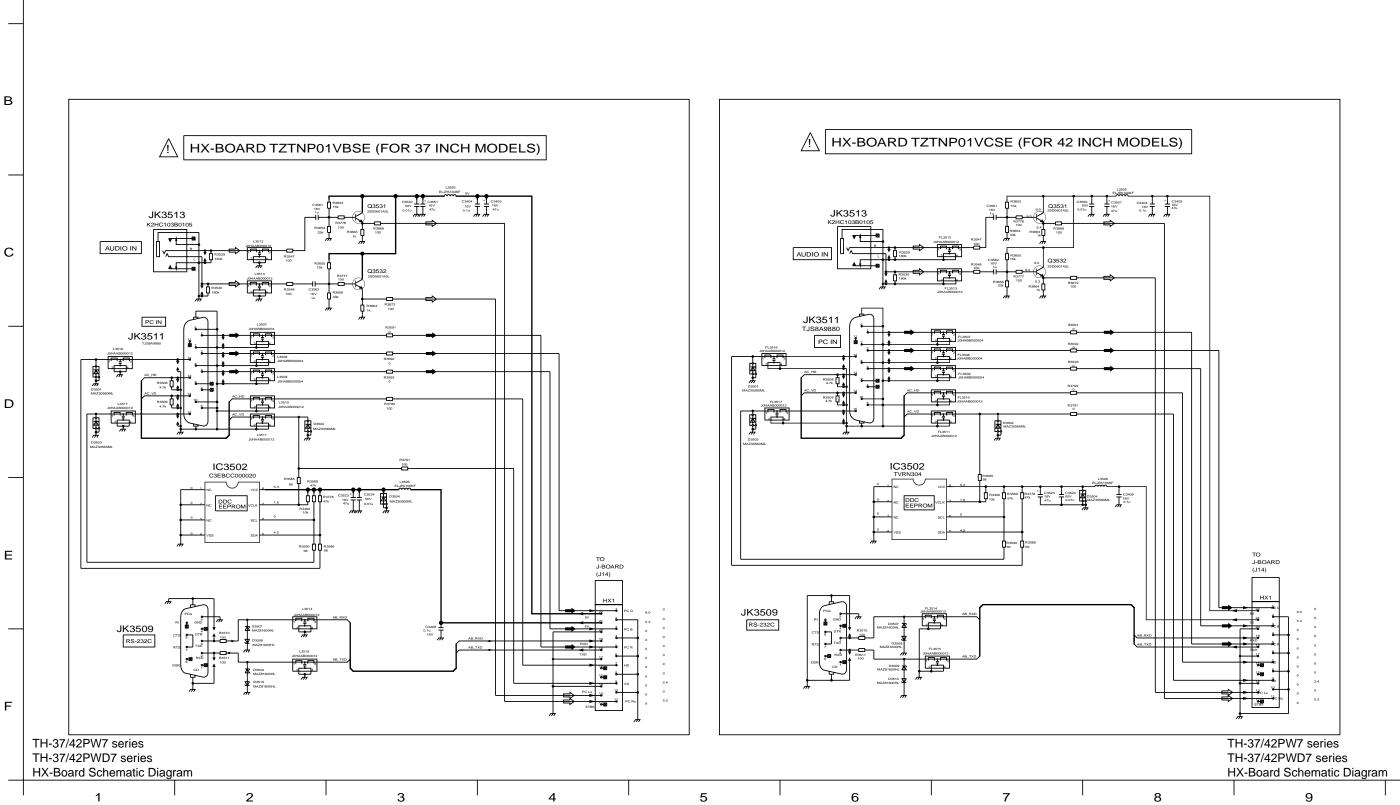


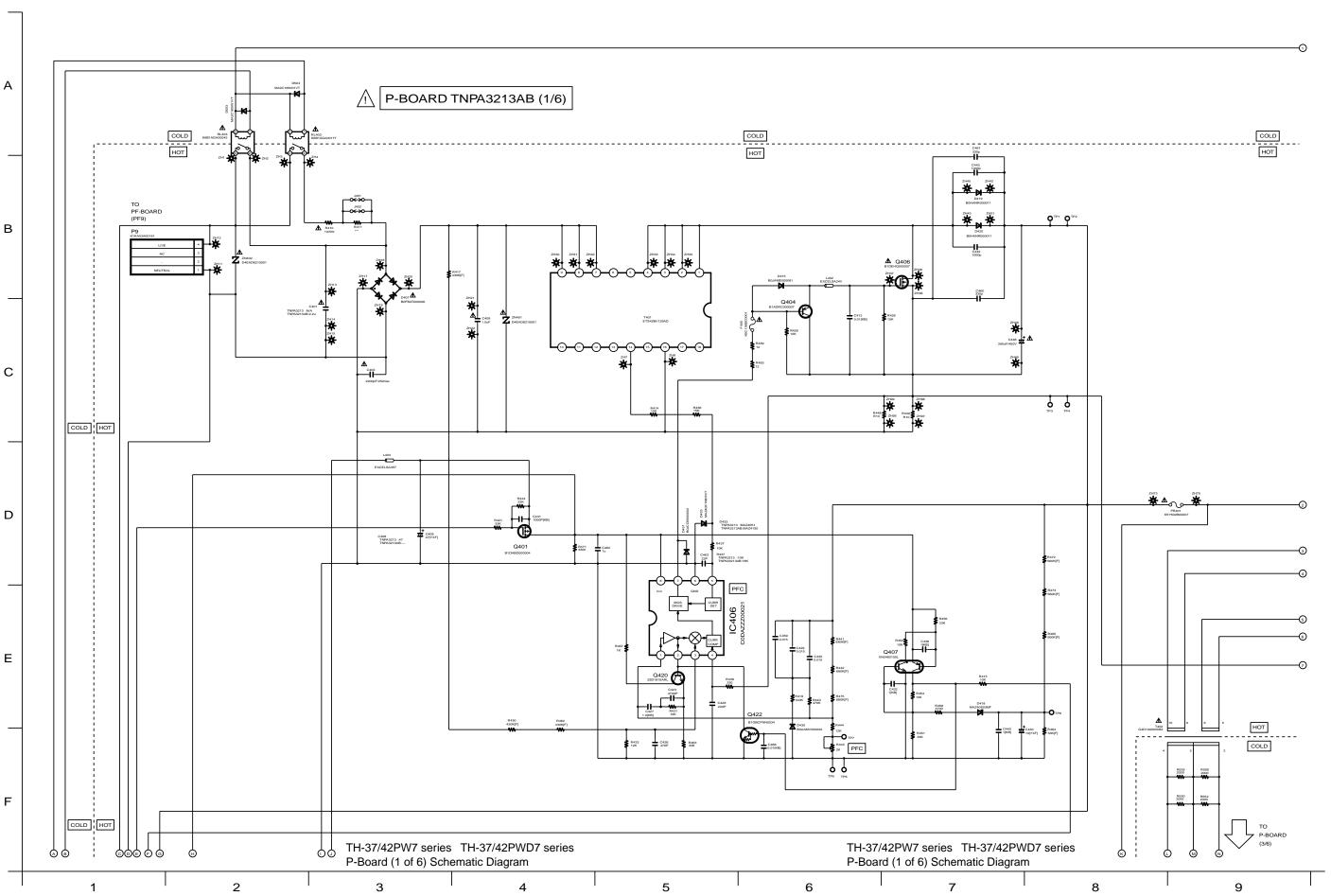


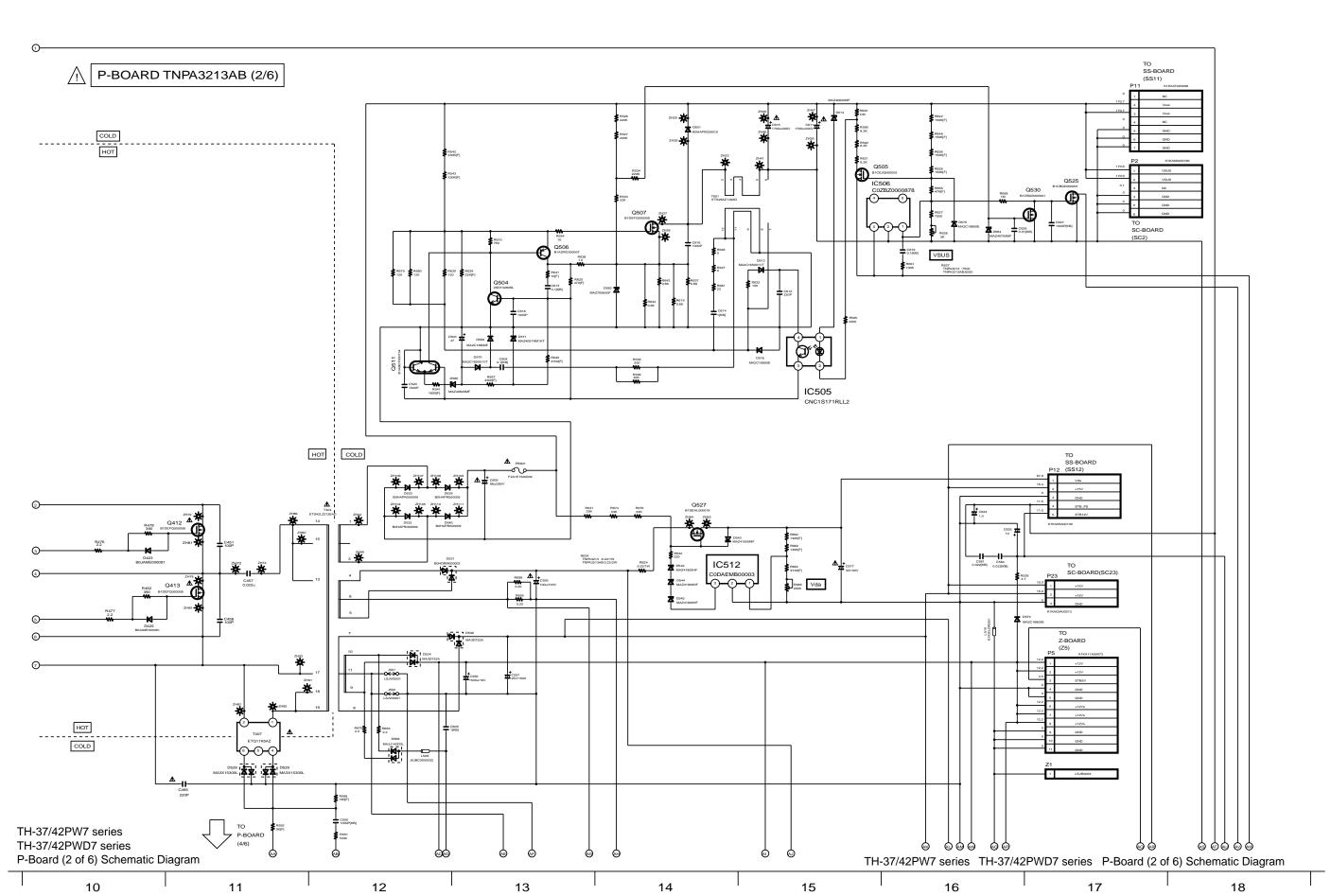
HB-Board (2 of 2) Schematic Diagram

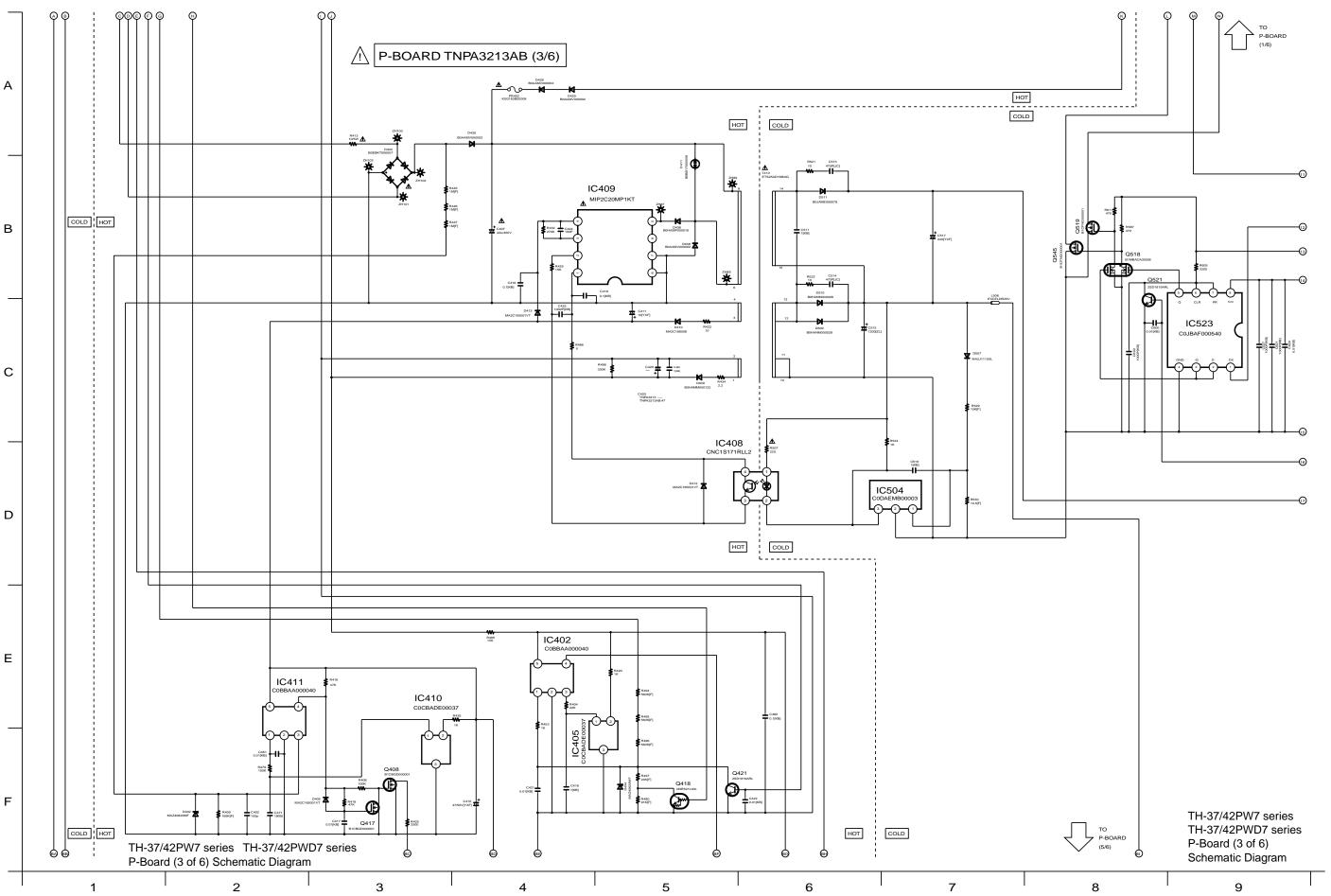
10 11 12 13 14 15 16 17 18

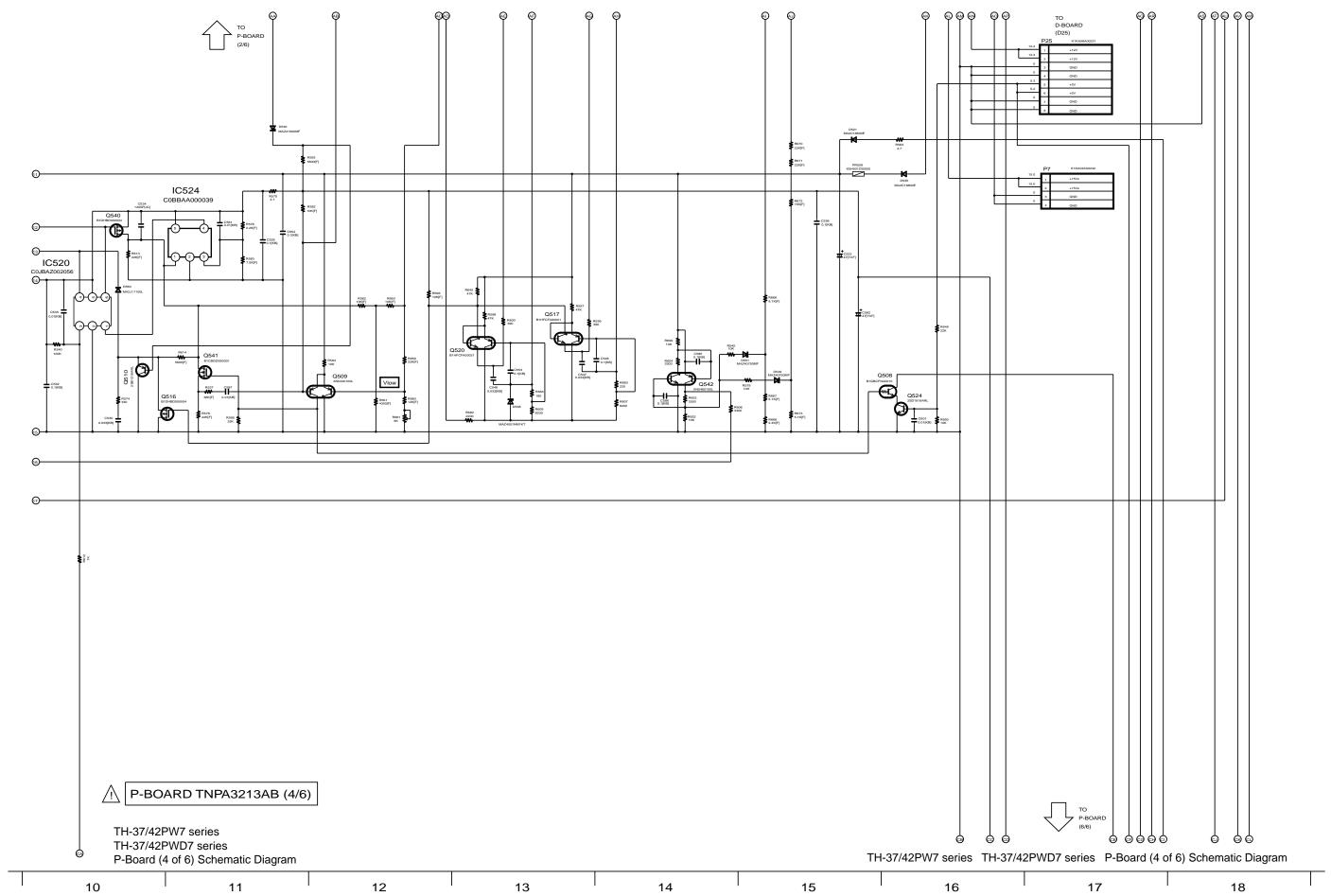
TH-37/42PW7 series TH-37/42PWD7 series

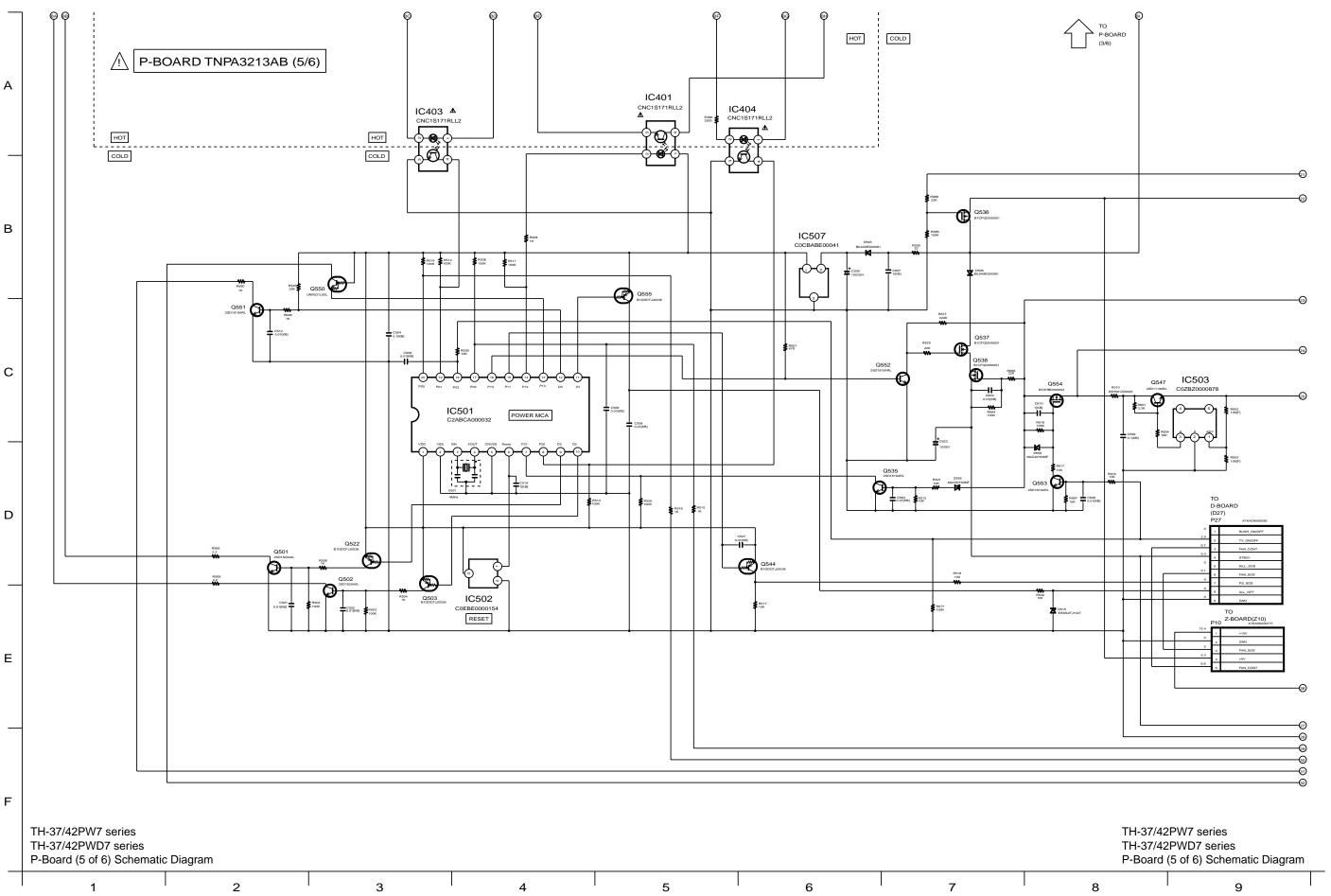


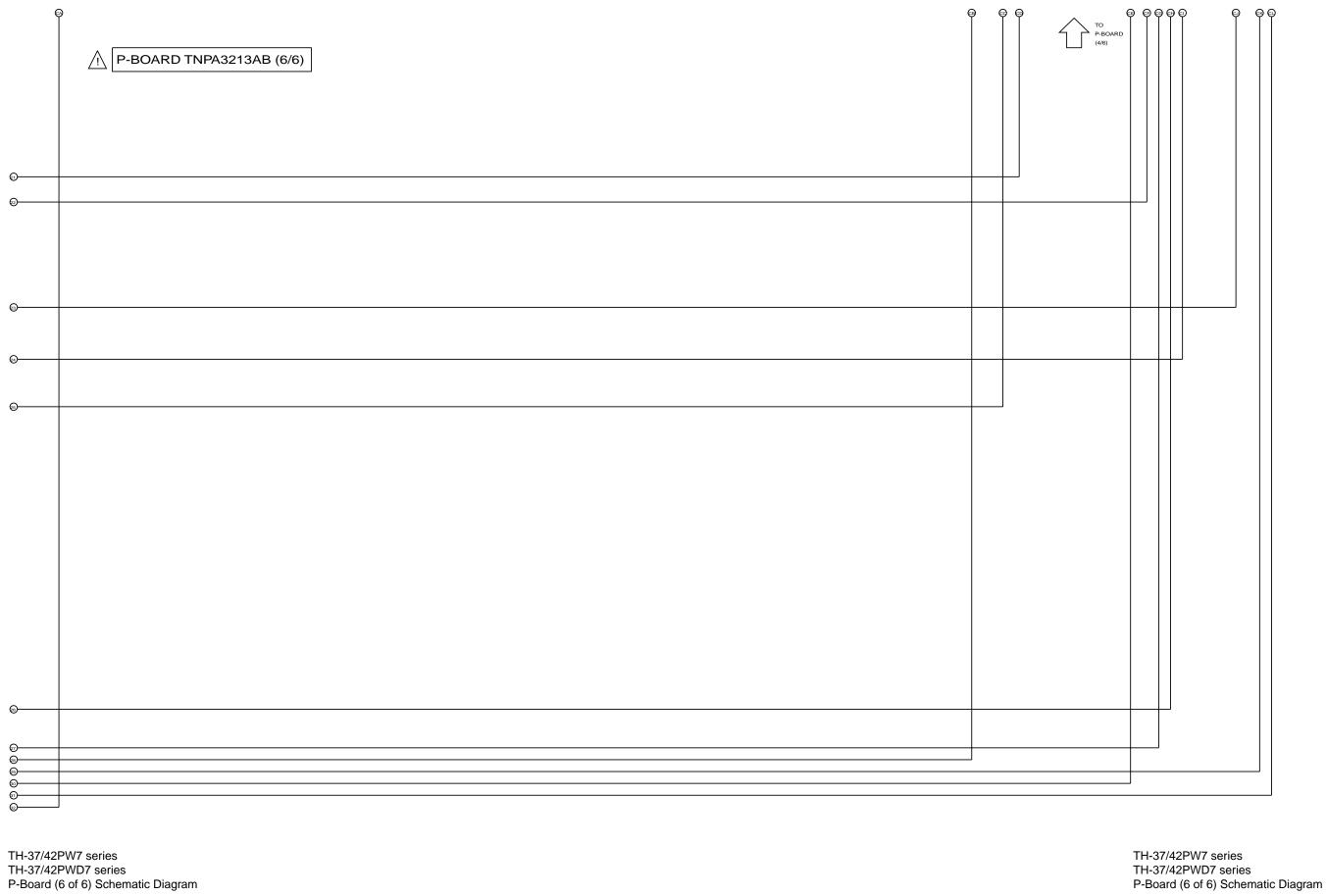




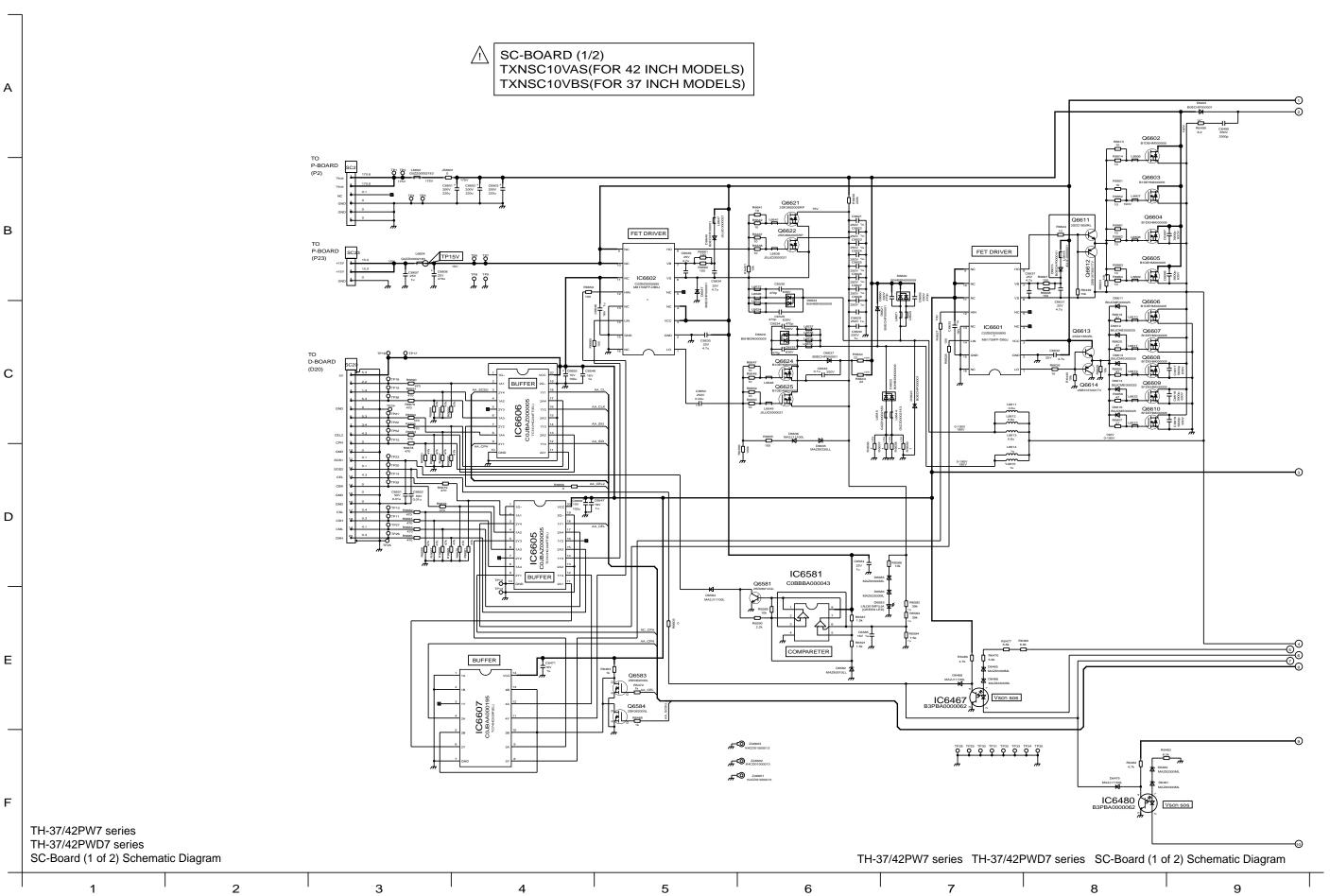


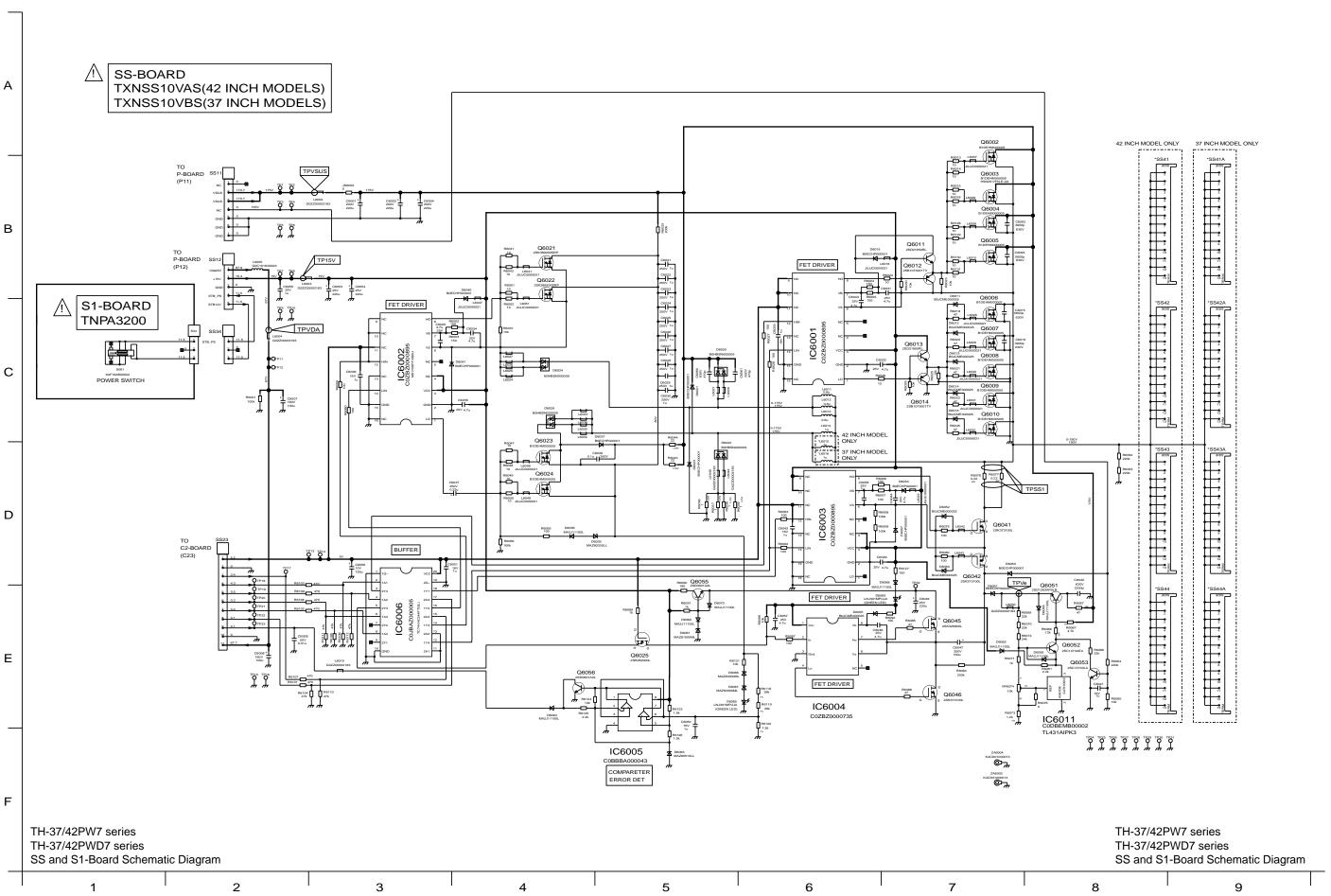


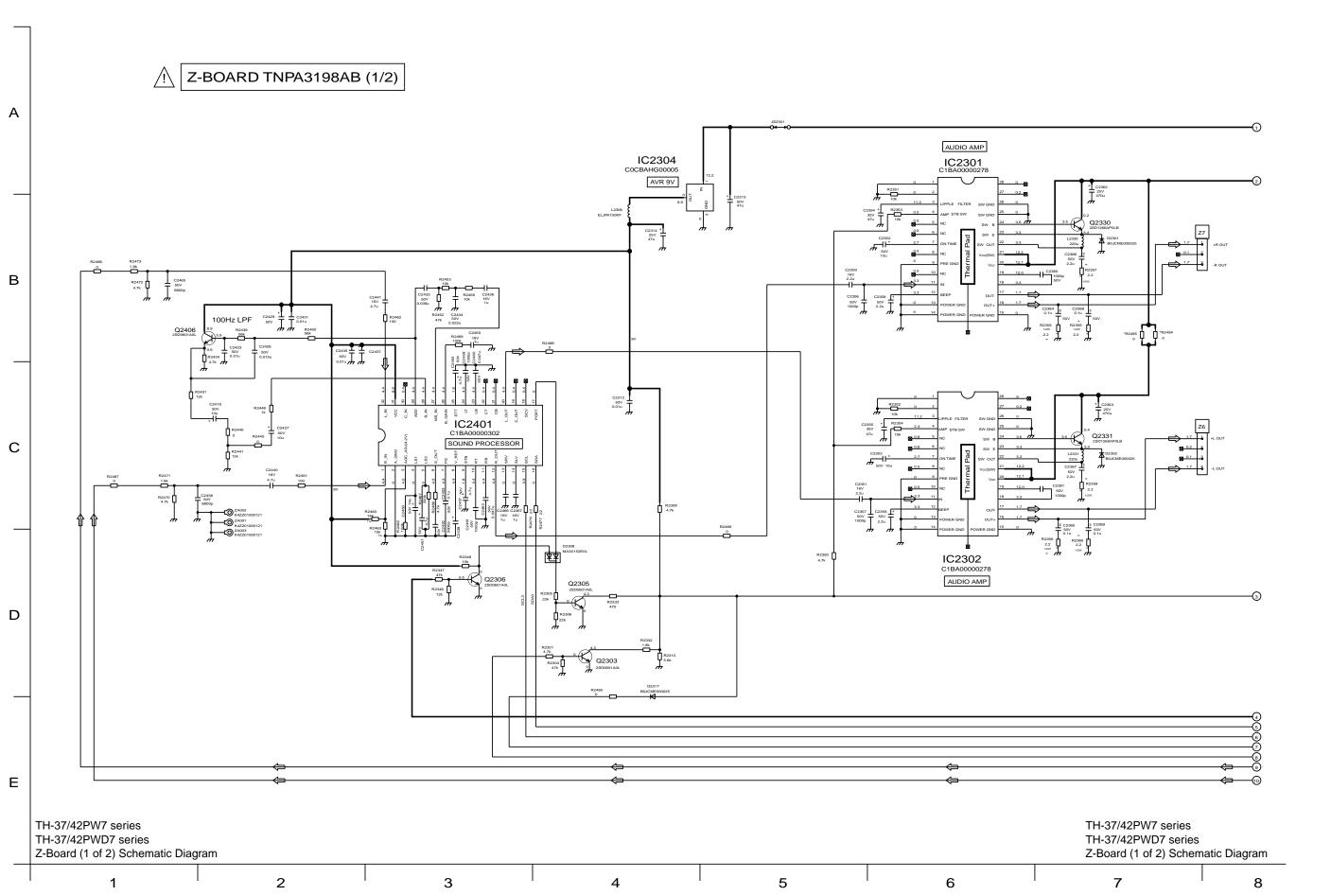


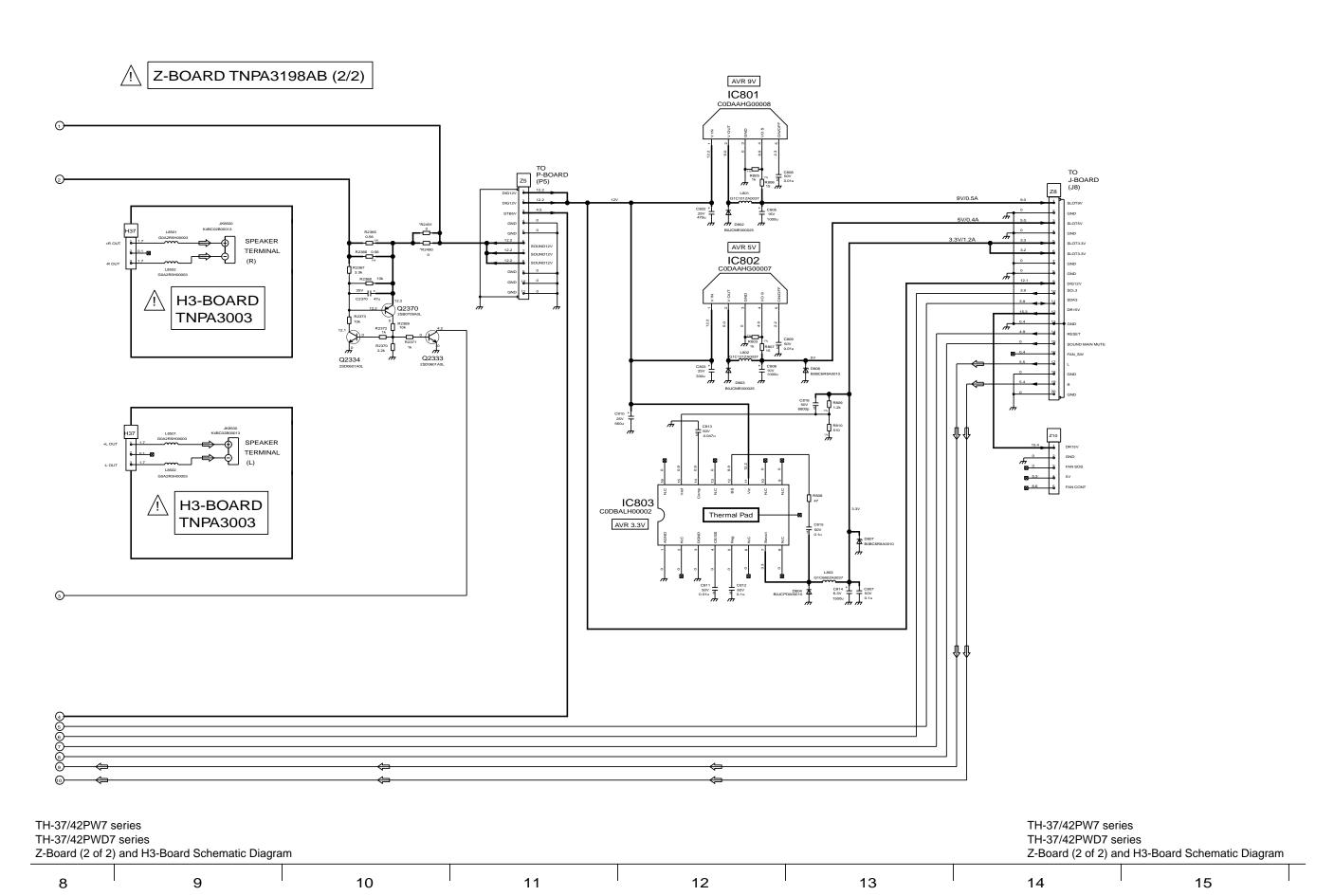


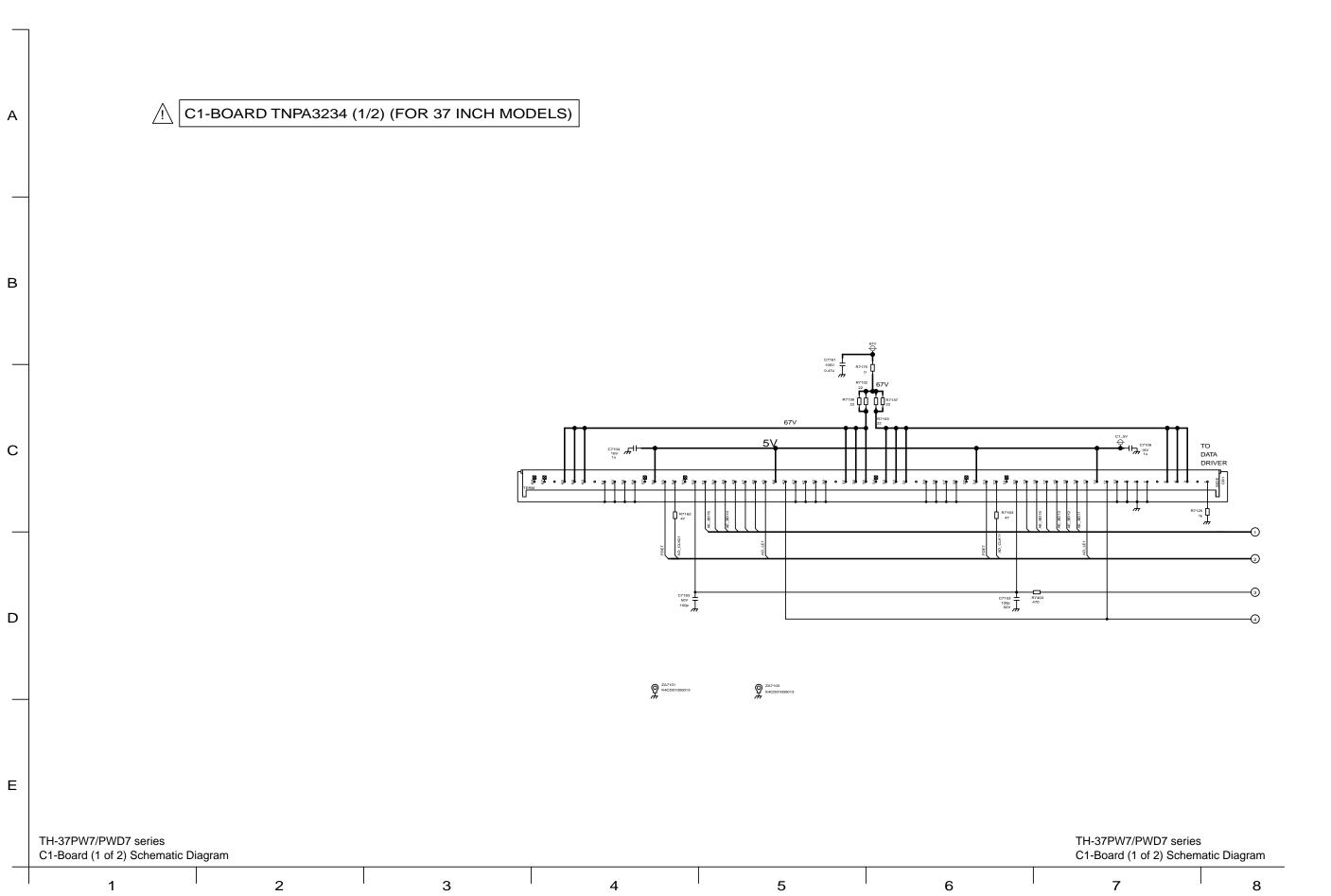
10 11 12 13 14 15 16 17 18

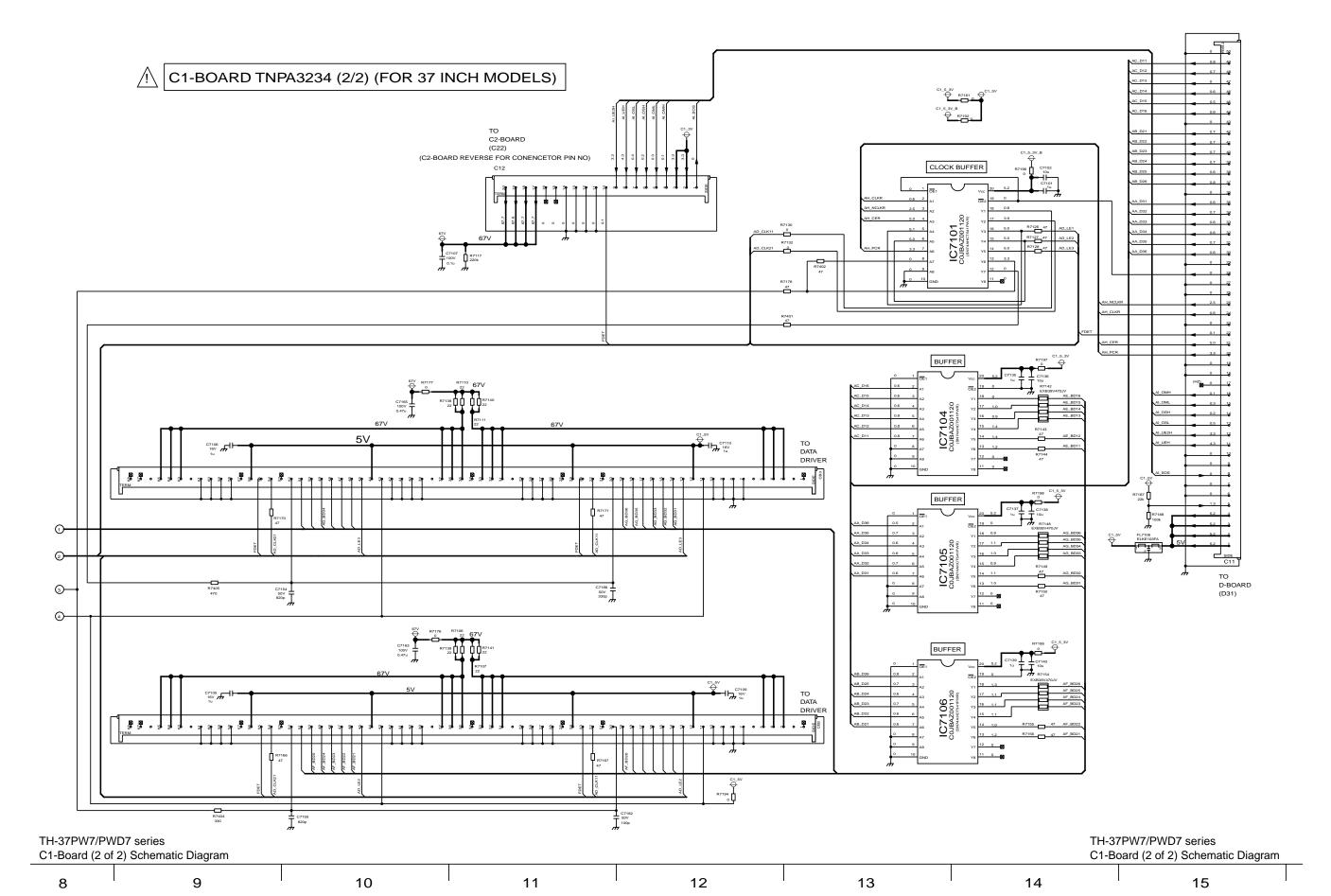


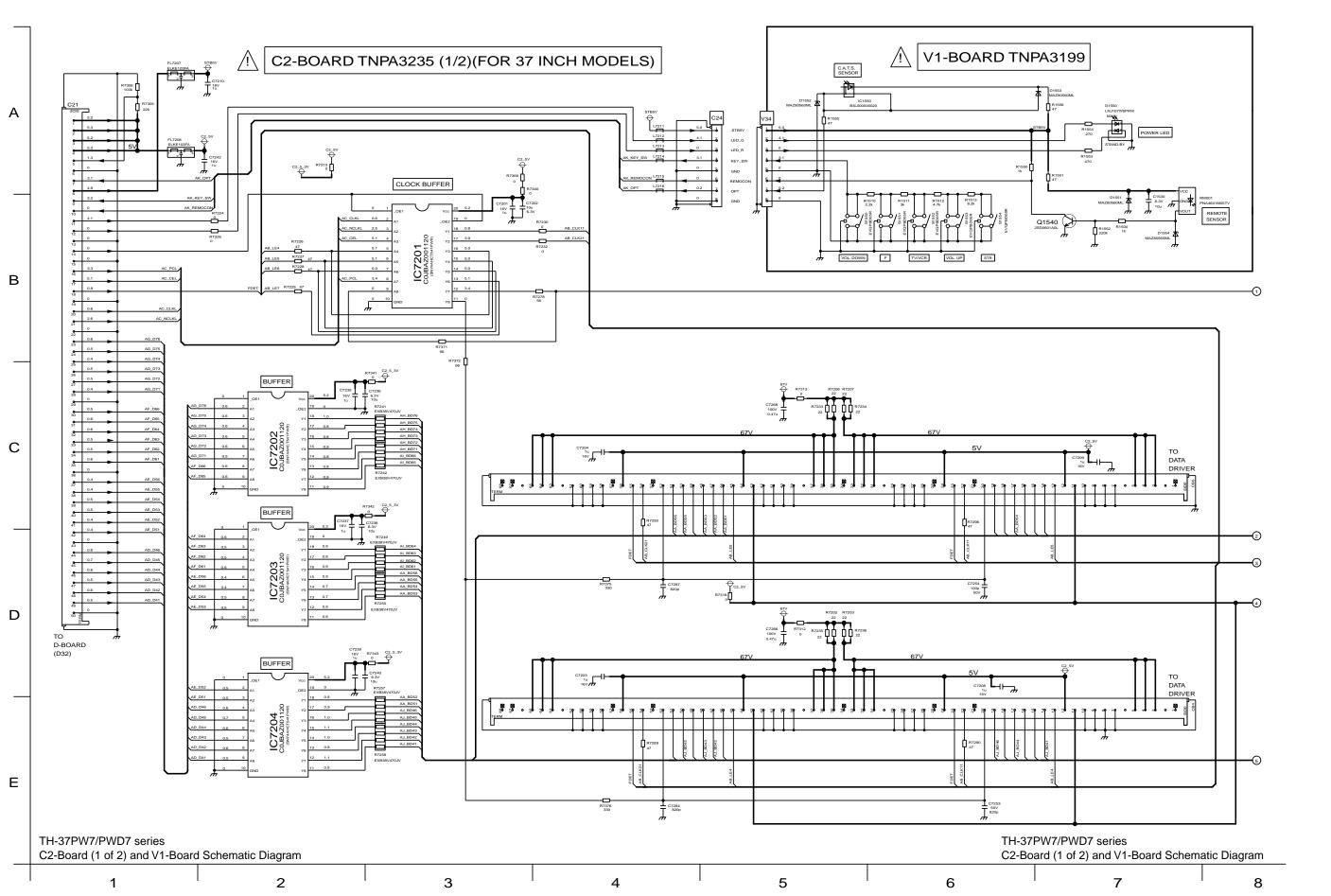


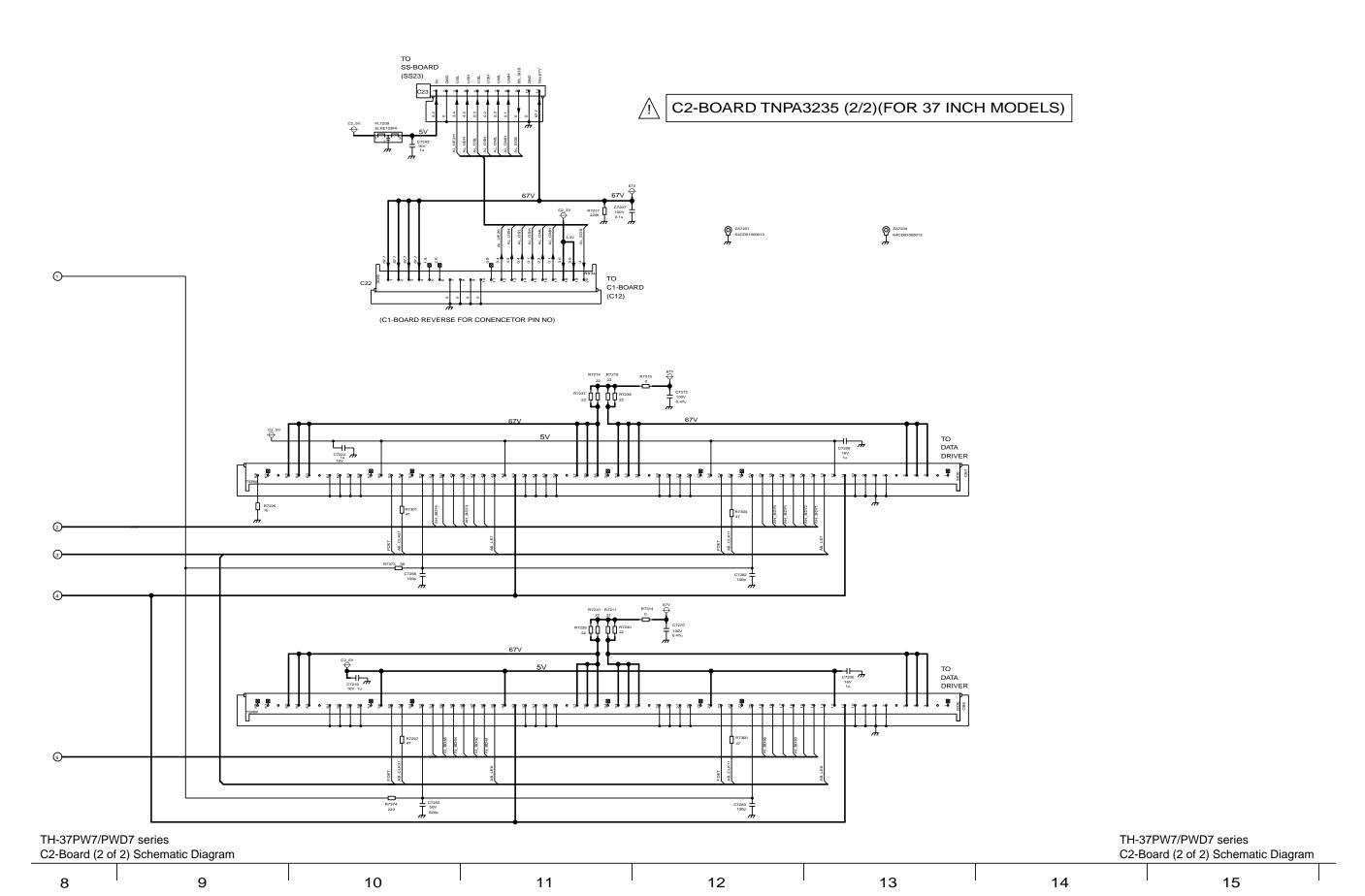


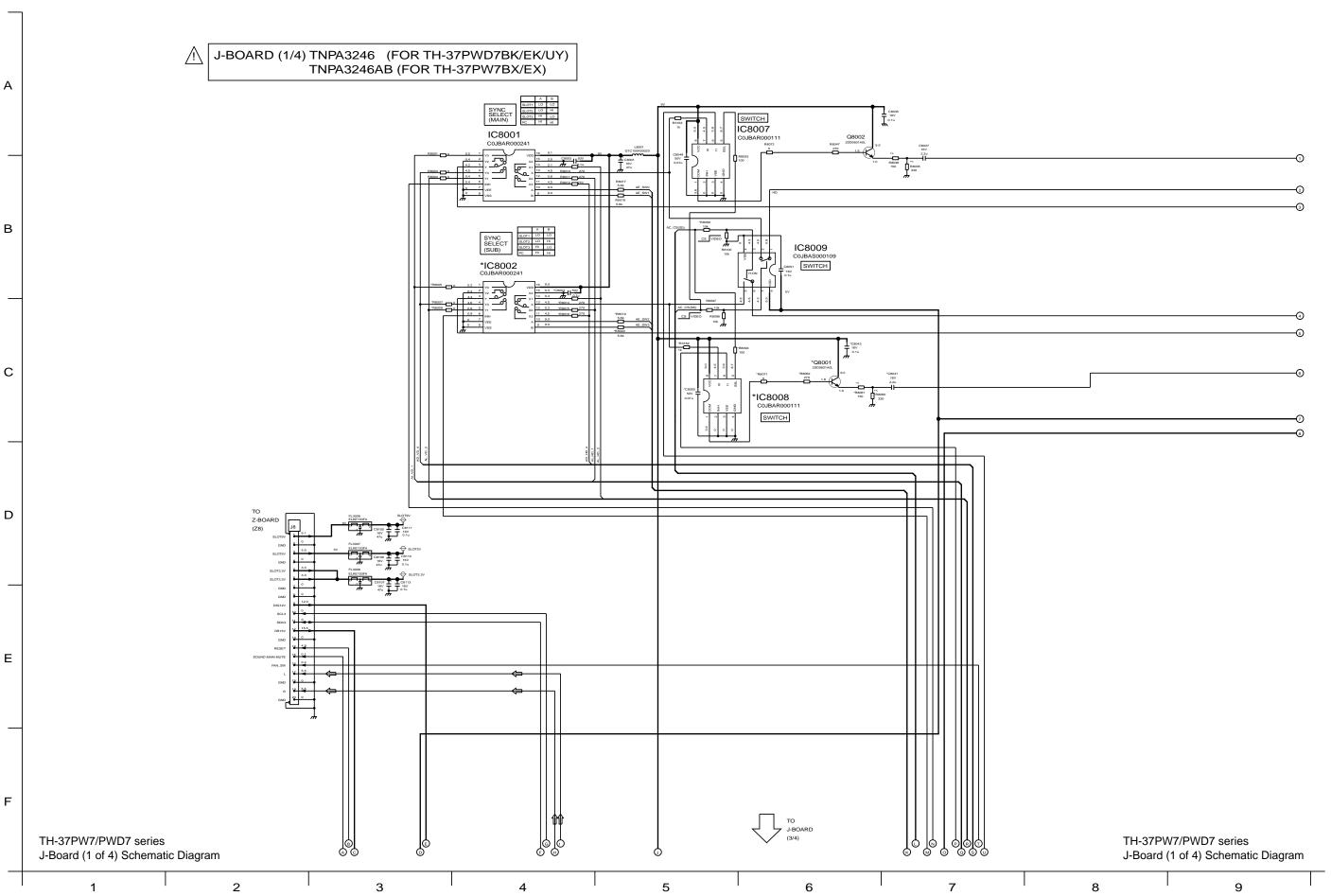




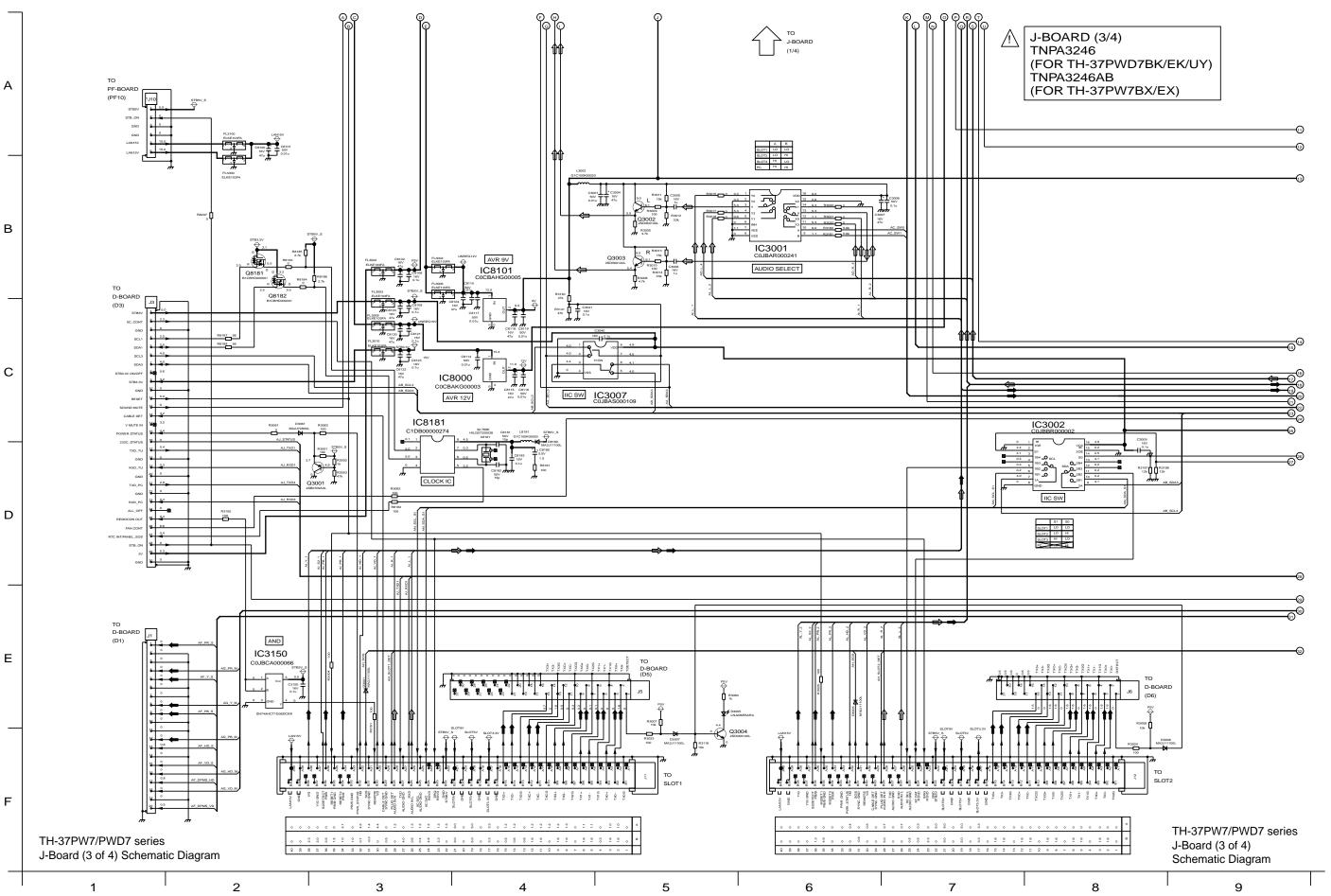


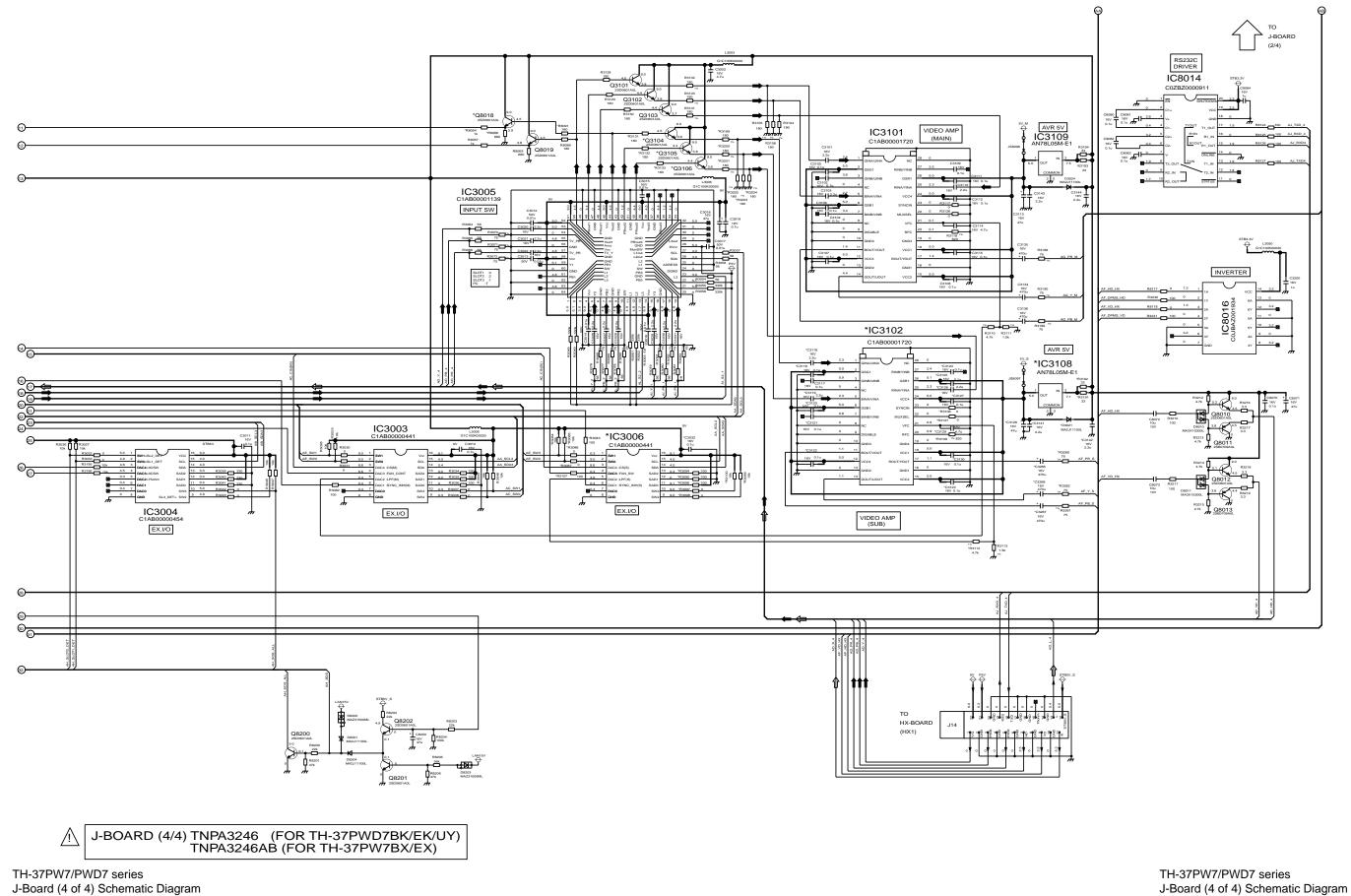




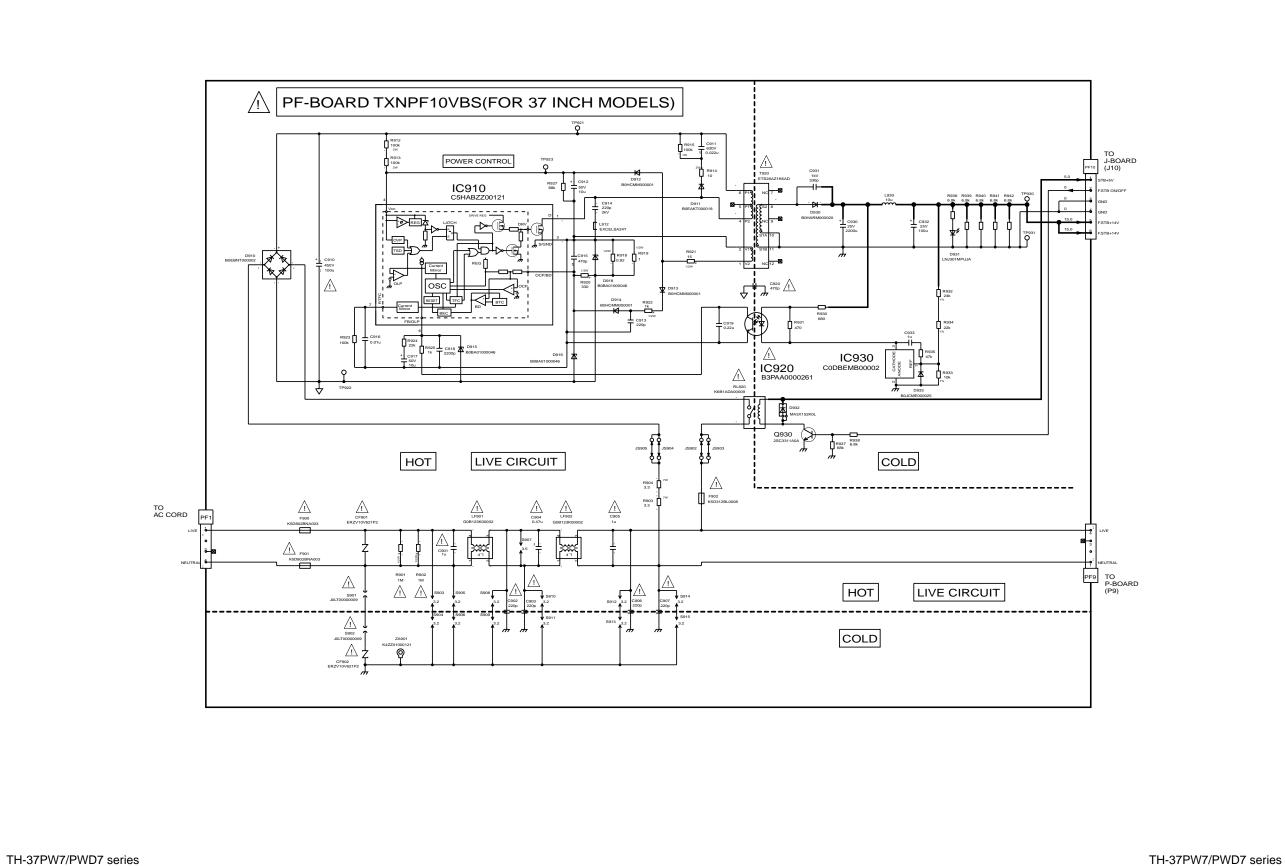


J-BOARD (2/4) TNPA3246 (FOR TH-37PWD7BK/EK/UY) TNPA3246AB (FOR TH-37PW7BX/EX) SYNC SIGNAL PROCESSOR (MAIN) IC8003 C1AA0000039 INVERTER \*IC8004 C1AA00000395 TH-37PW7/PWD7 series J-Board (2 of 4) Schematic Diagram TH-37PW7/PWD7 series J-Board (2 of 4) Schematic Diagram 11 13 15 16 10 12 14 17 18





10 11 12 13 14 15 16 17 17 18



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 PF-Board Schematic Diagram

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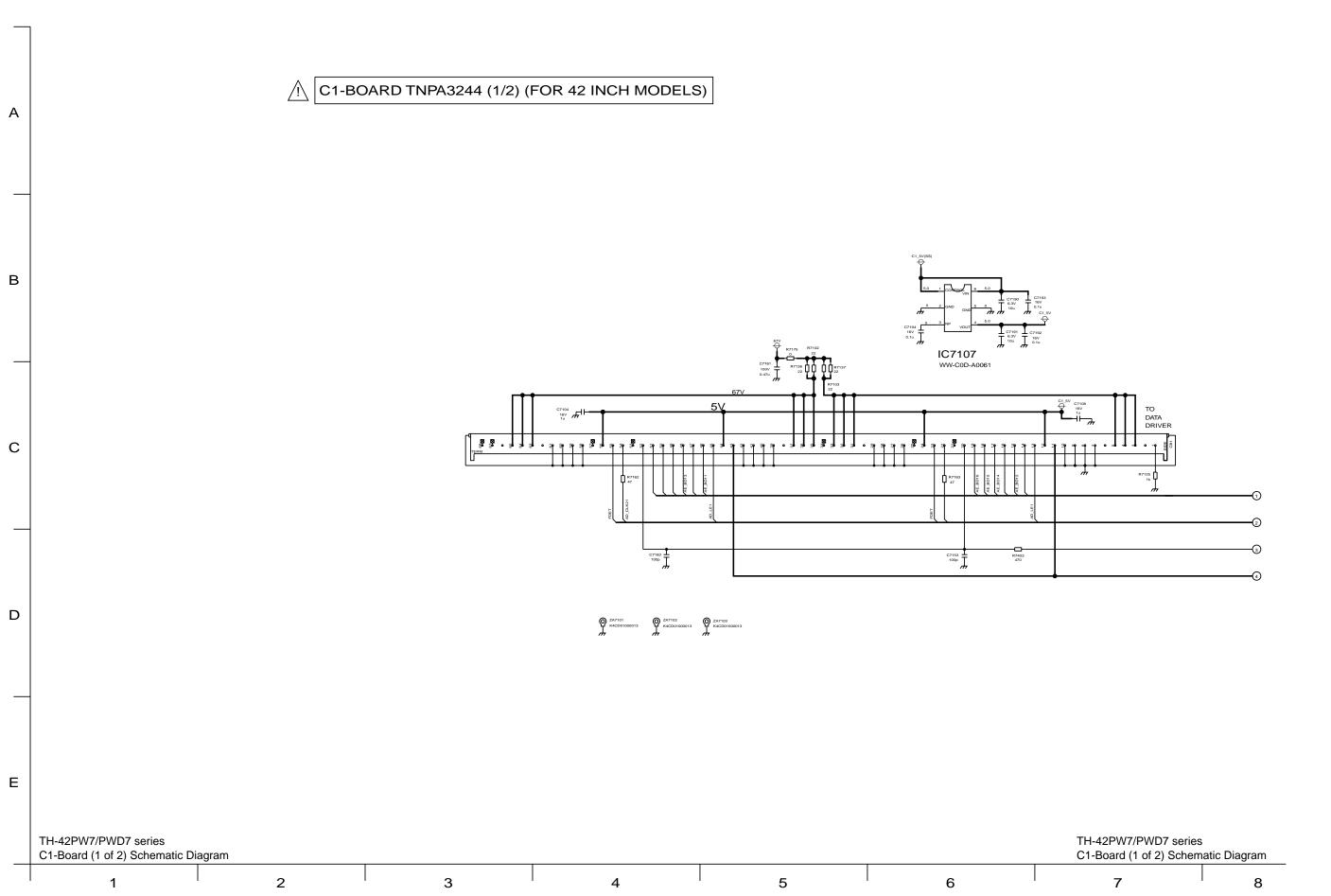
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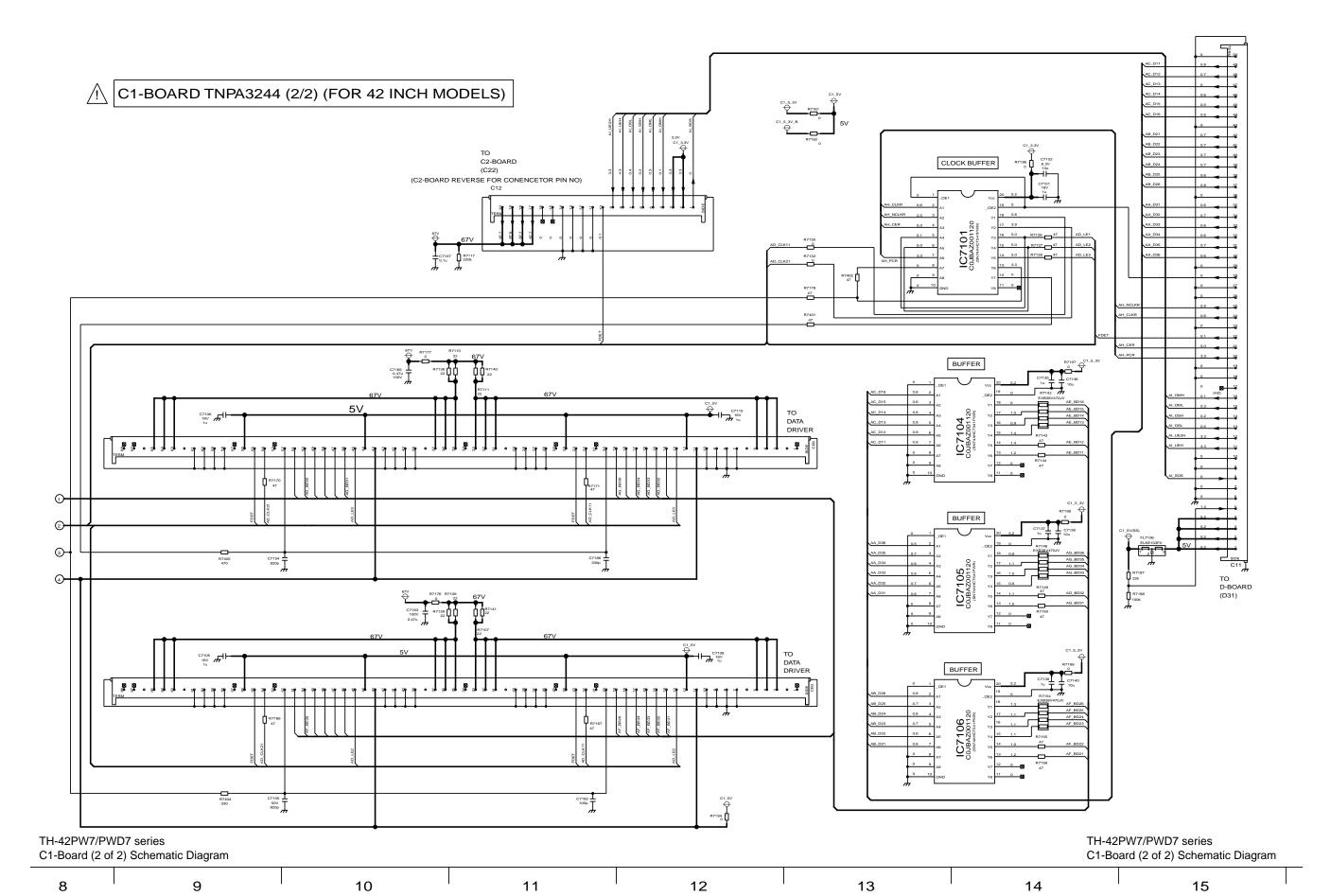
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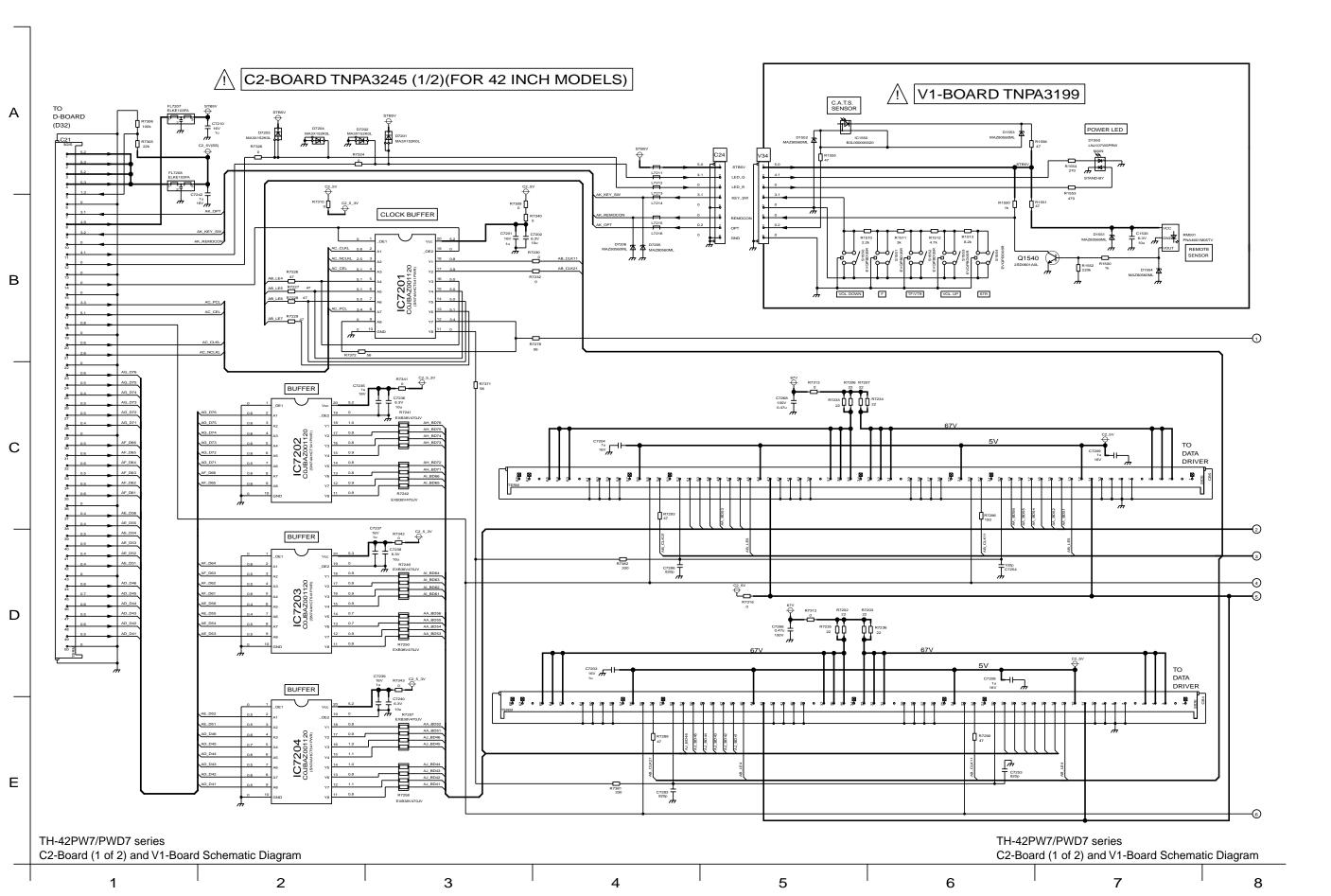
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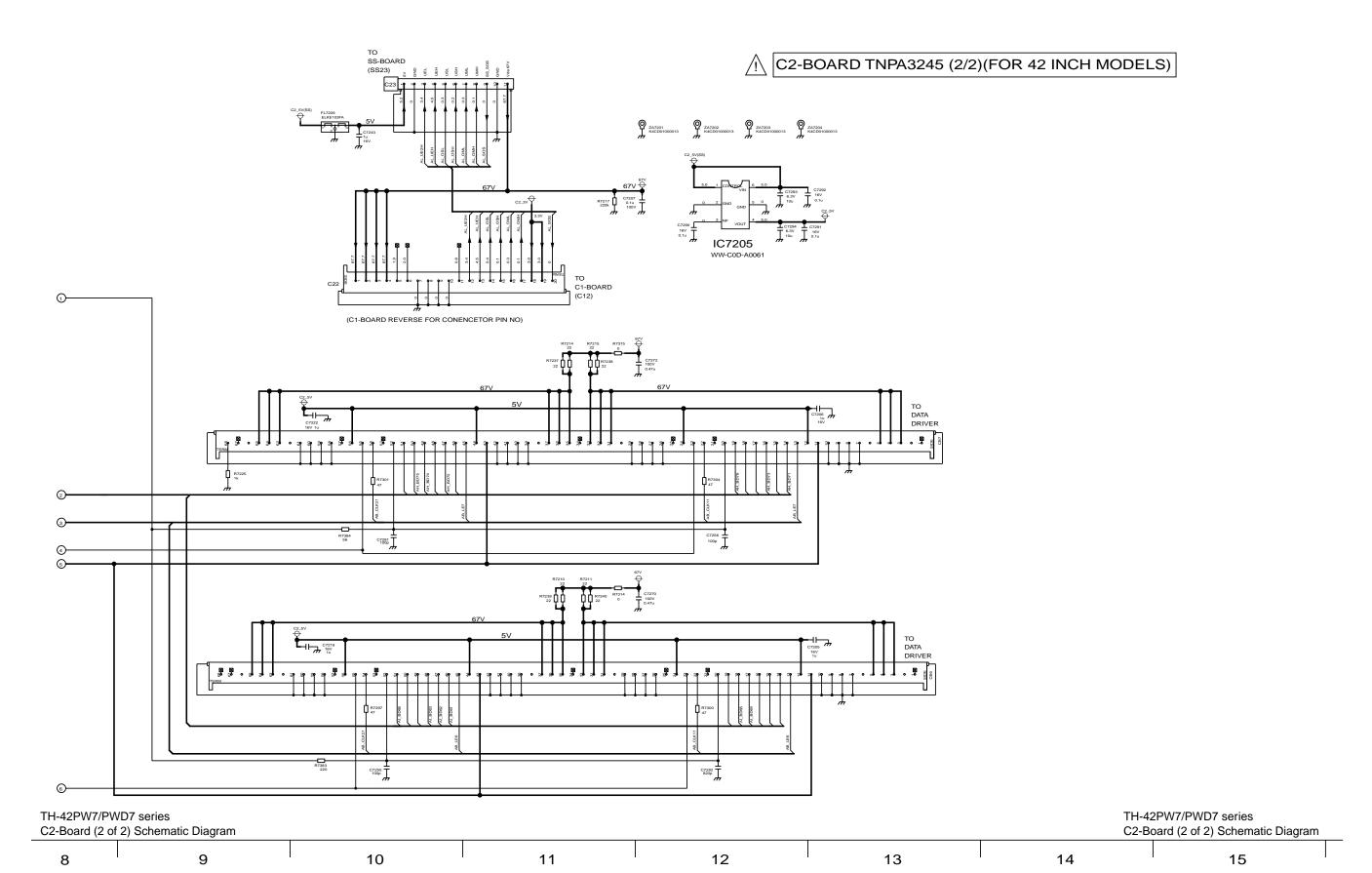
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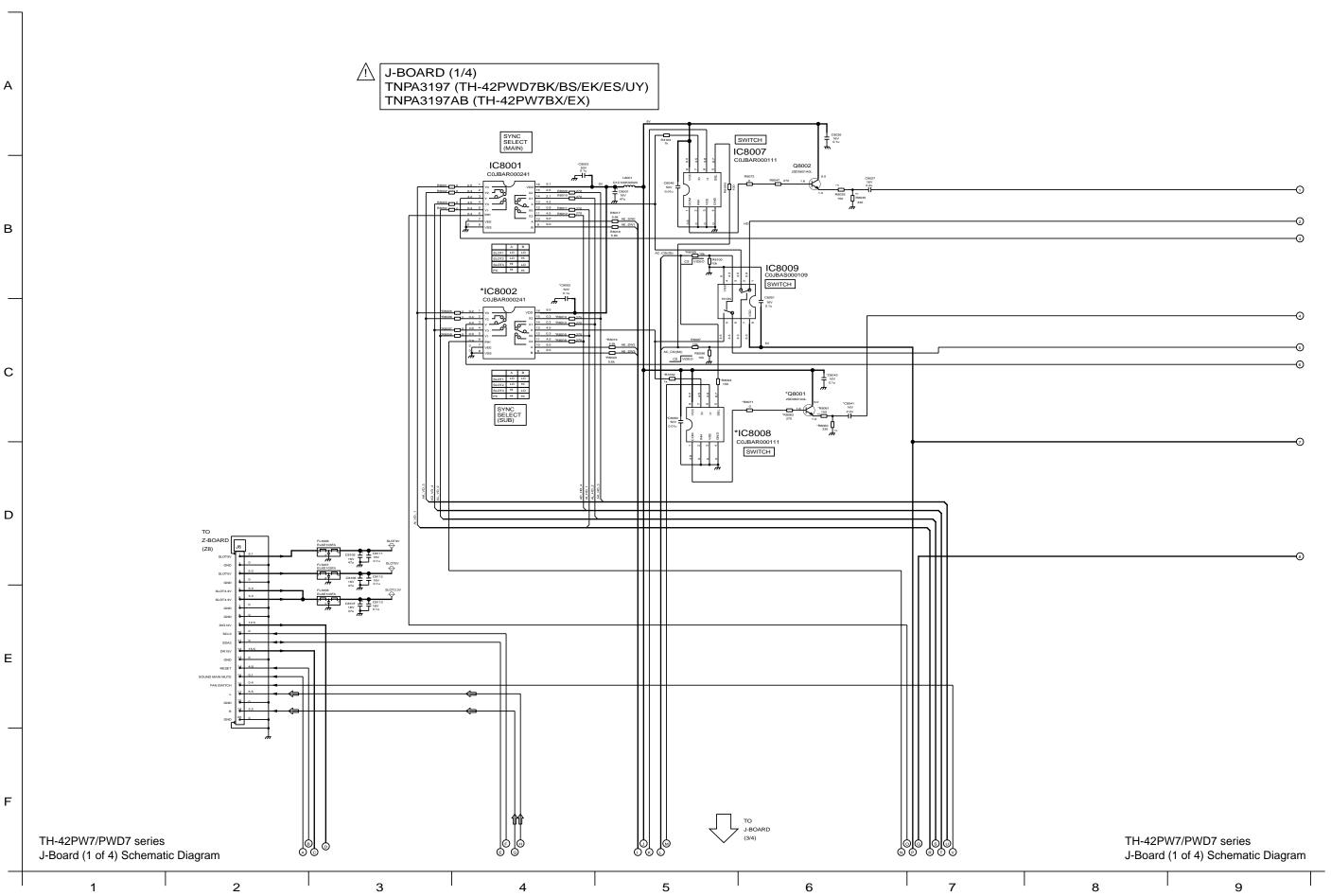
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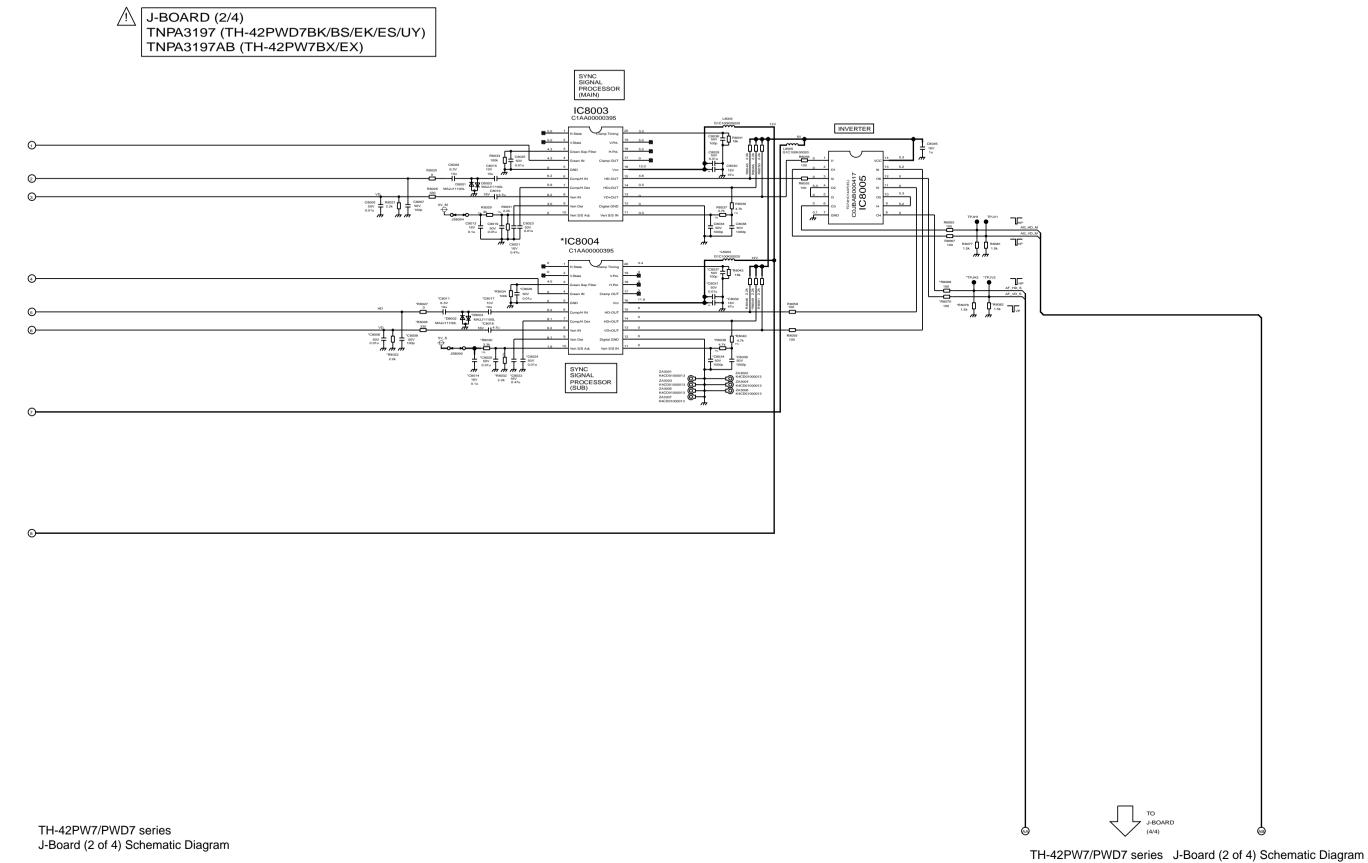




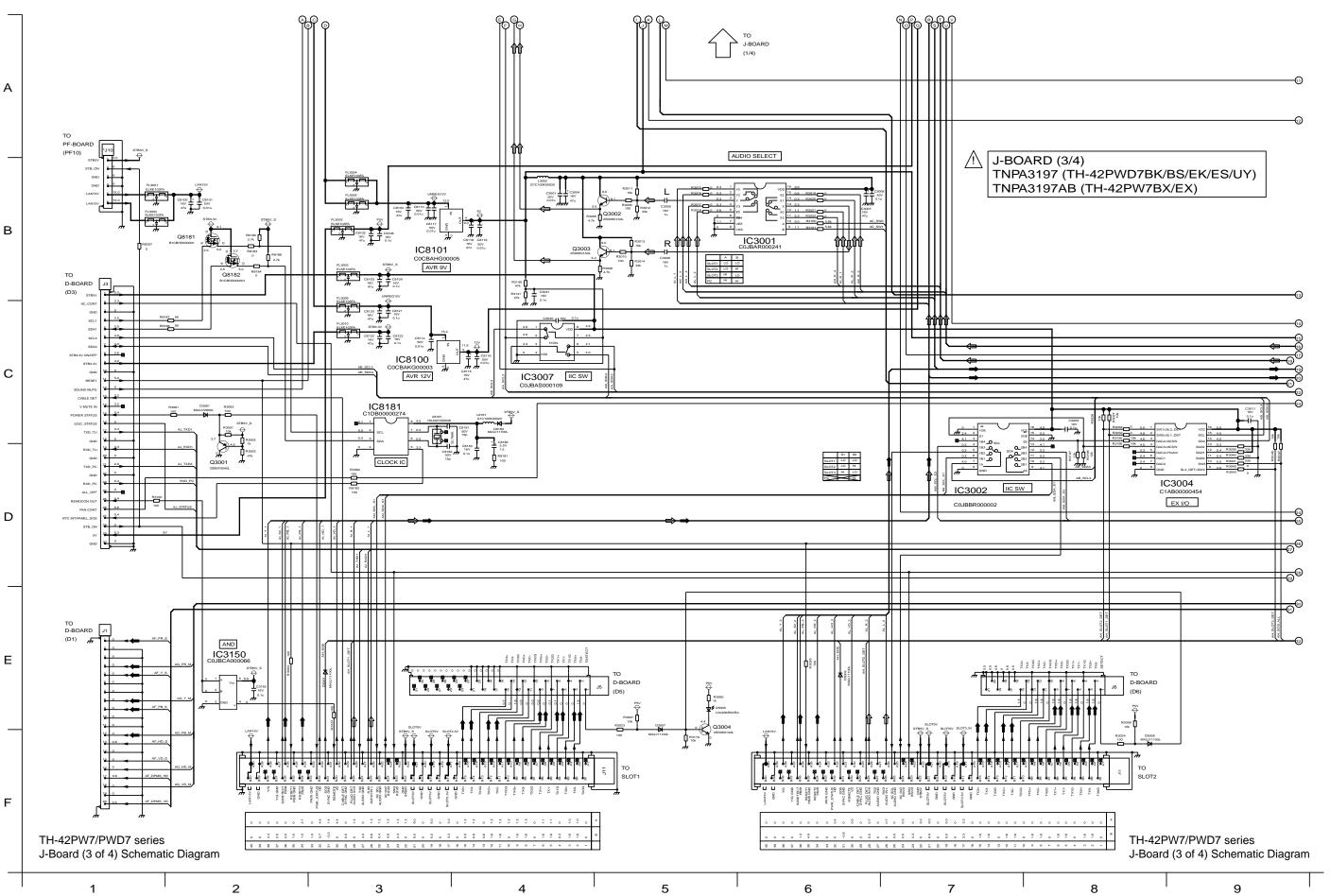


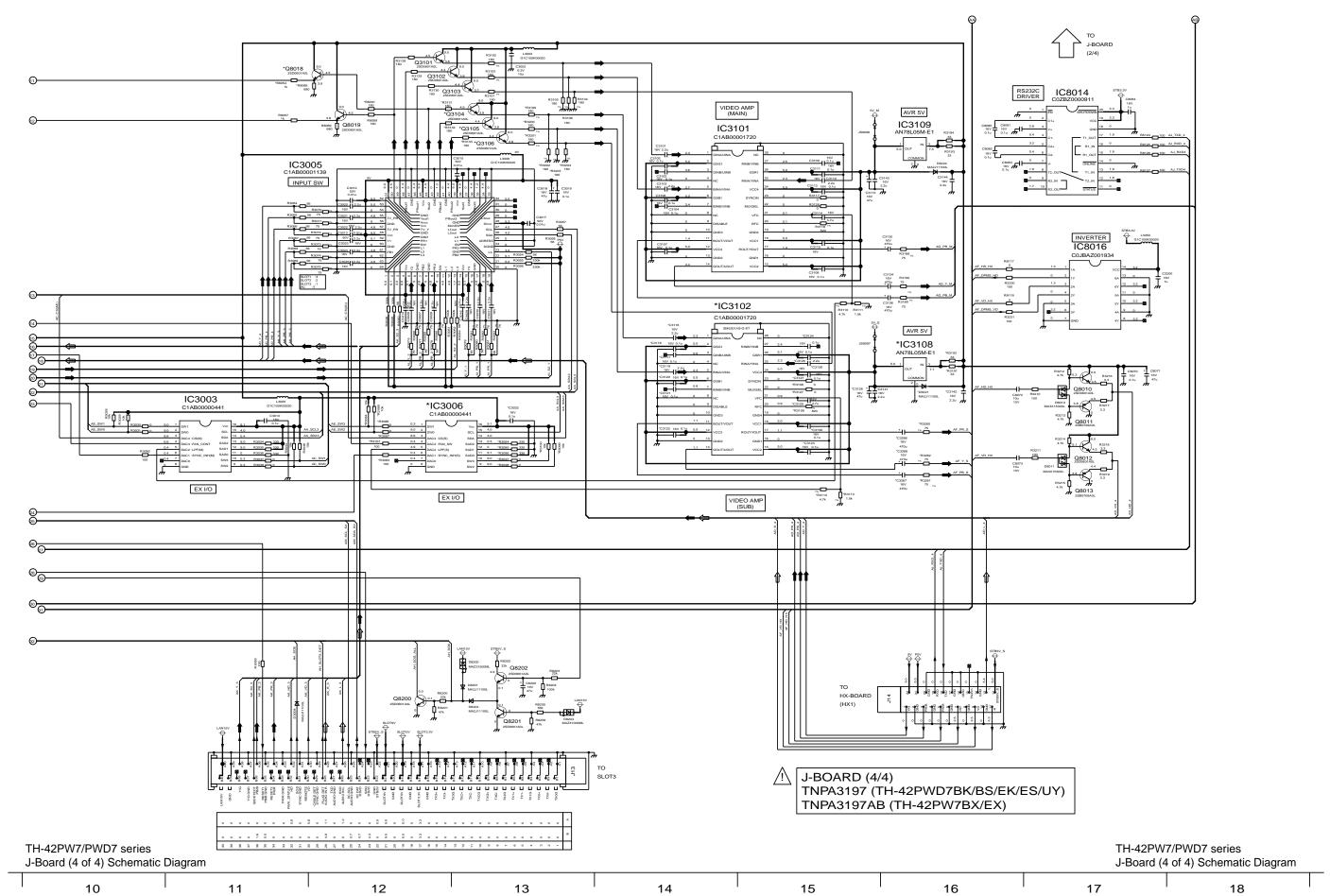


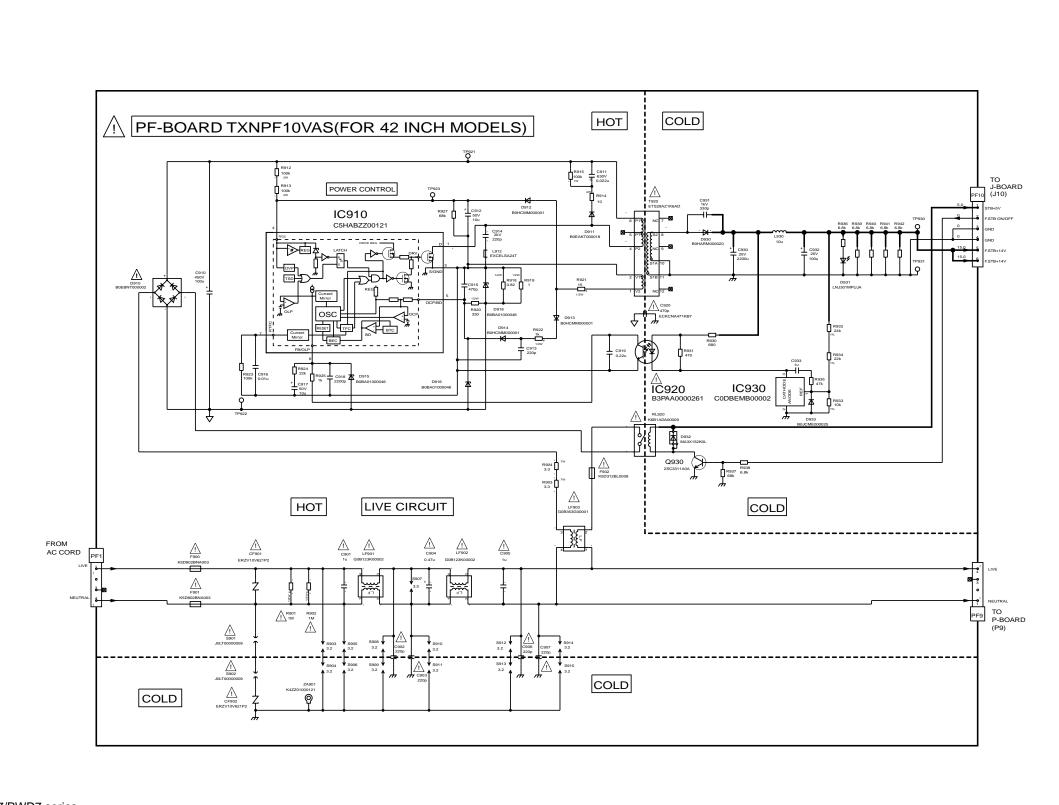




10 11 12 13 14 15 16 17 18







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 TH-42PW7/PWD7 series

 PF-Board Schematic Diagram
 TH-42PW7/PWD7 series

 PF-Board Schematic Diagram
 PF-Board Schematic Diagram

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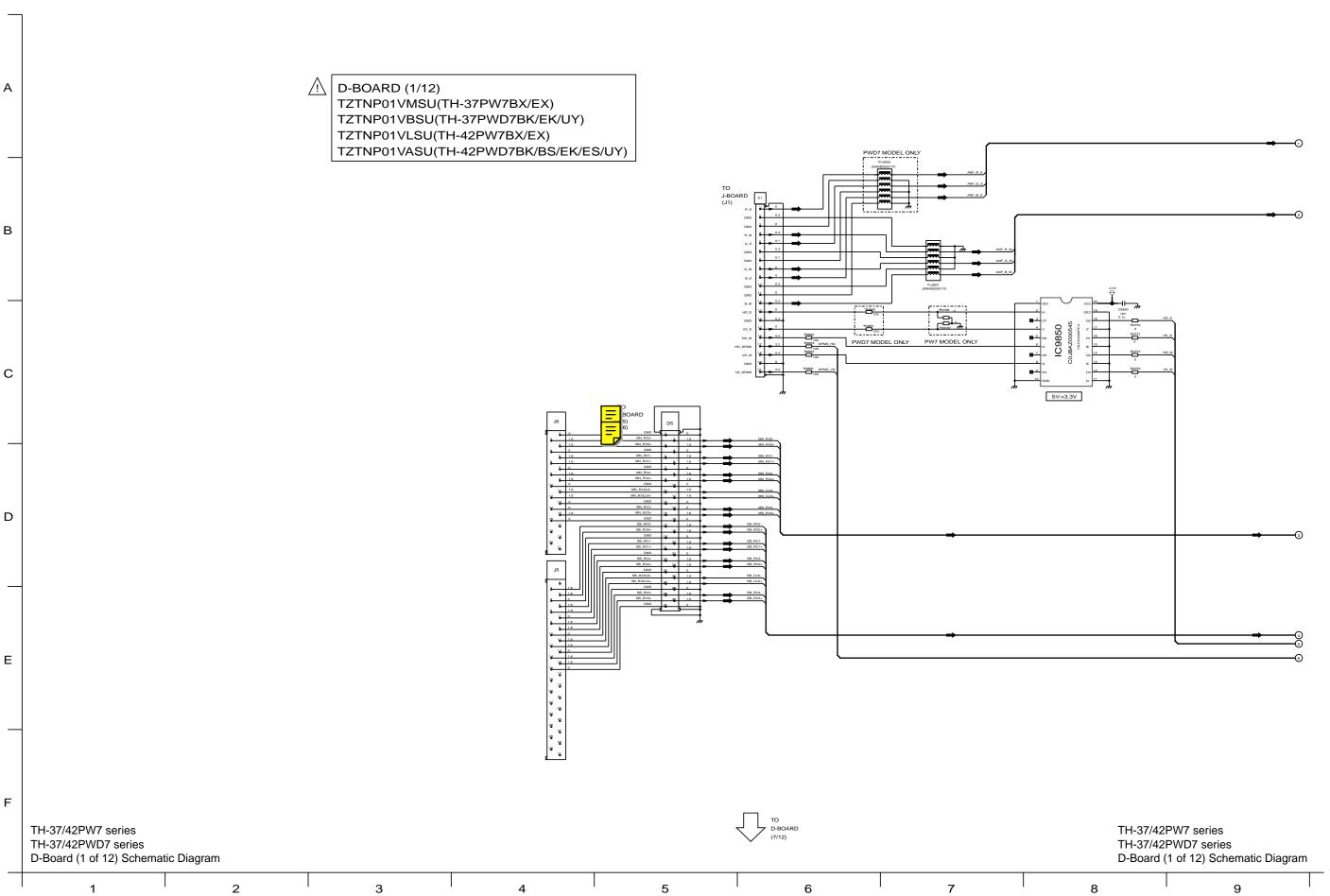
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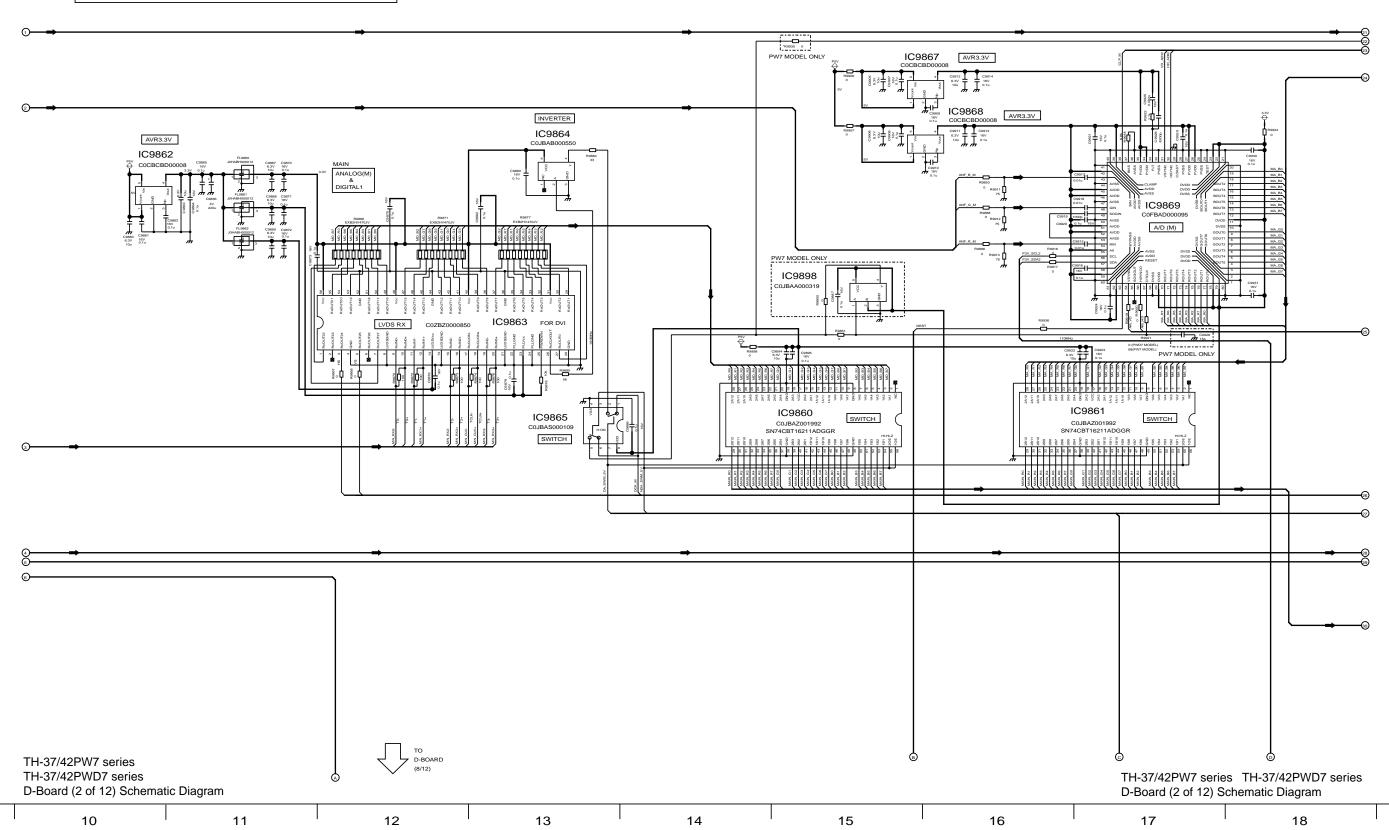
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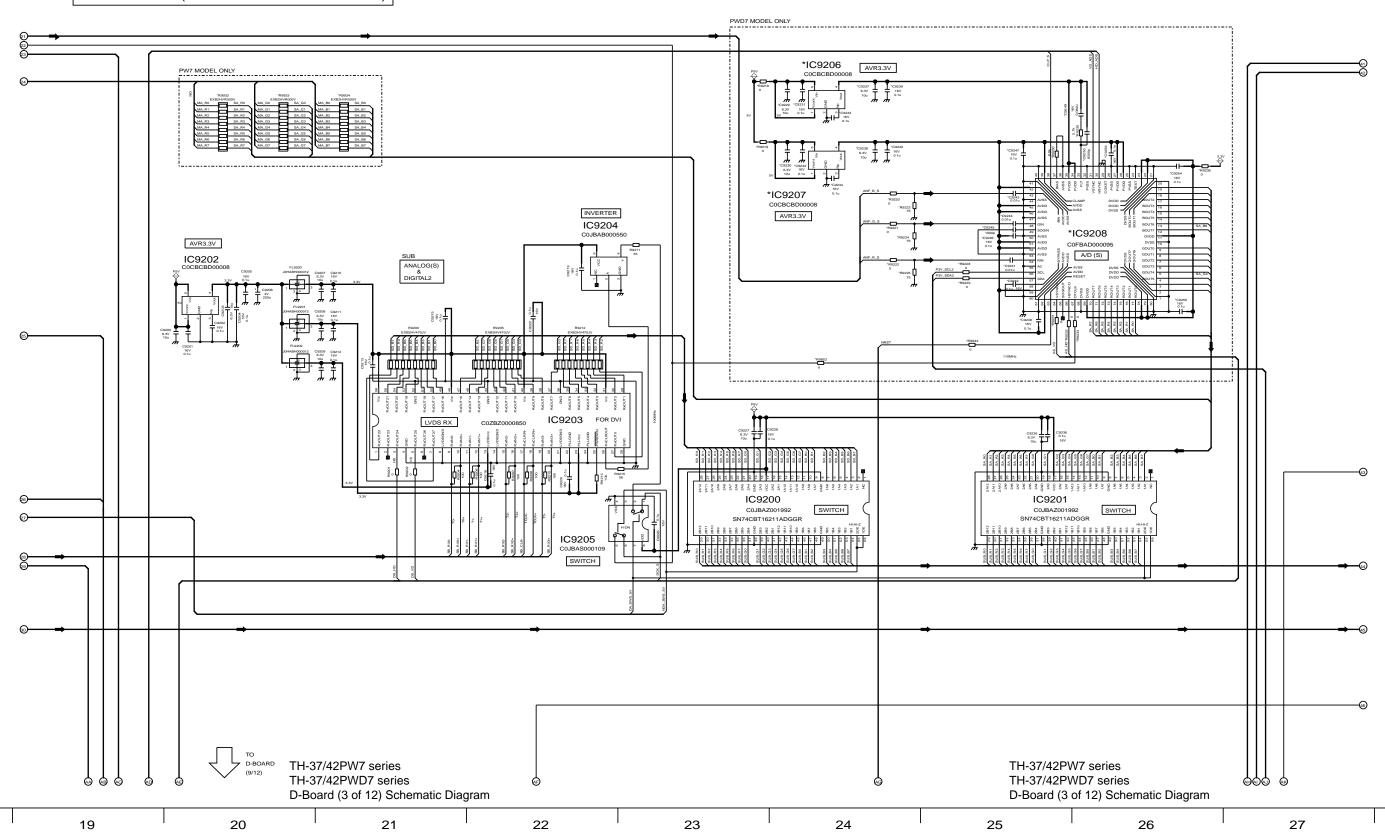
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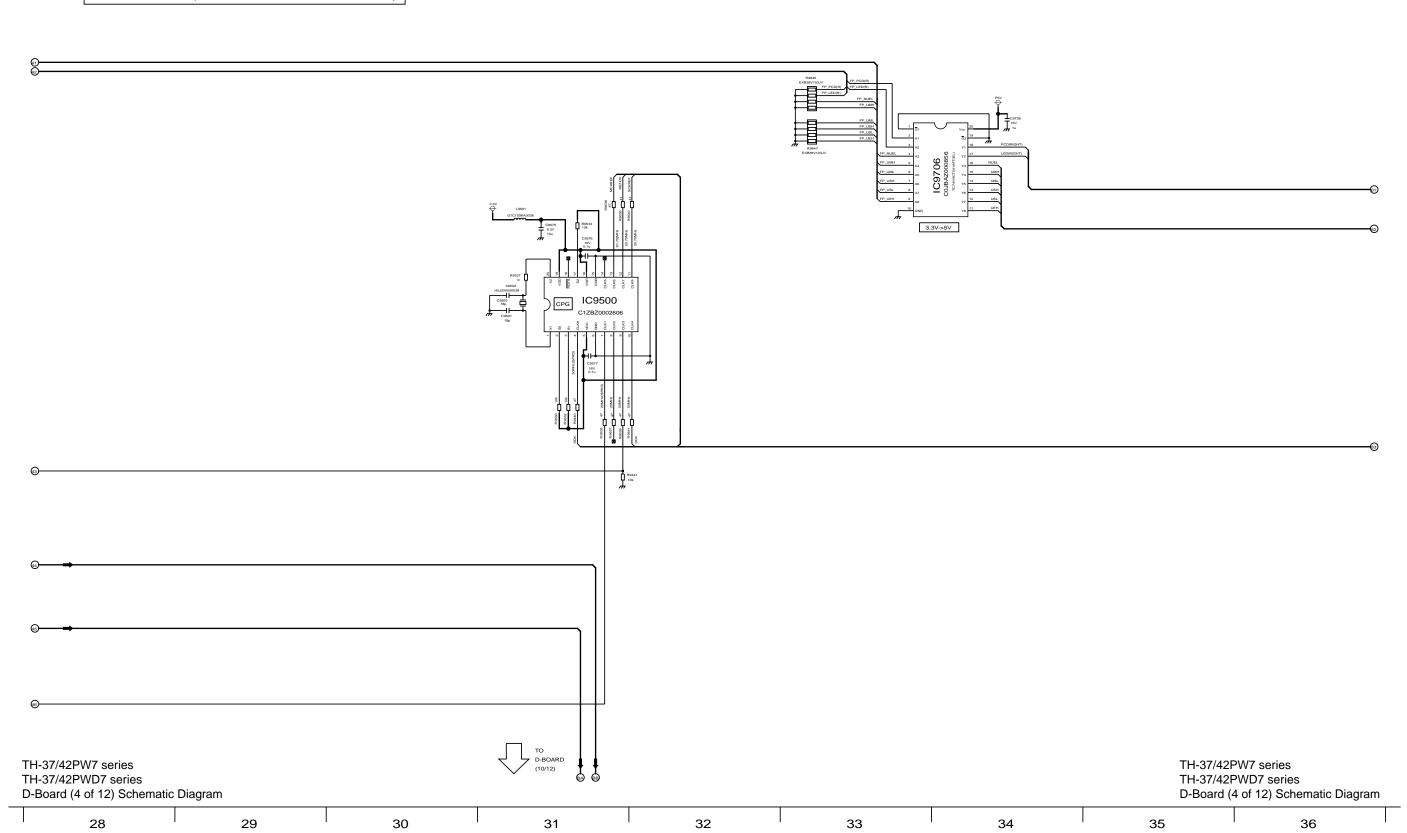
D-BOARD (2/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)



D-BOARD (3/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)



D-BOARD (4/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)



D-BOARD (5/12) TZTNP01VMSU(TH-37PW7BX/EX) TZTNP01VBSU(TH-37PWD7BK/EK/UY) TZTNP01VLSU(TH-42PW7BX/EX) TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY) TH-37/42PW7 series TH-37/42PW7 series TH-37/42PWD7 series TH-37/42PWD7 series D-Board (5 of 12) Schematic Diagram D-Board (5 of 12) Schematic Diagram

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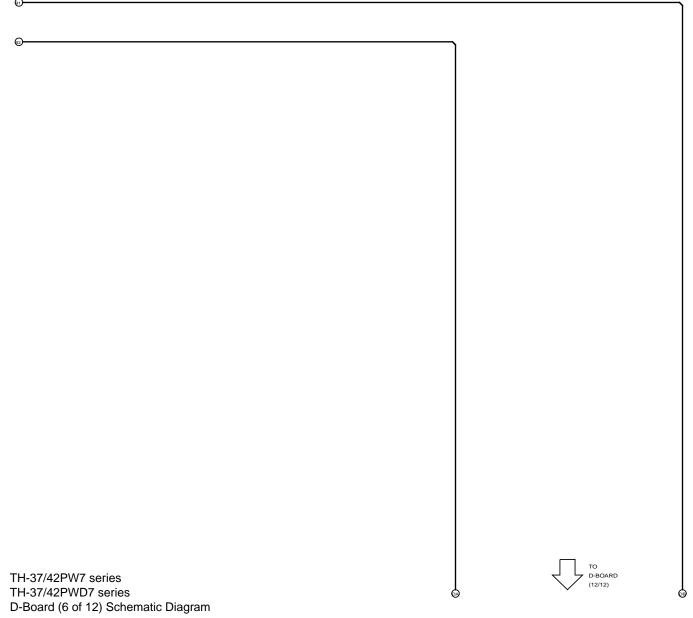
38

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39

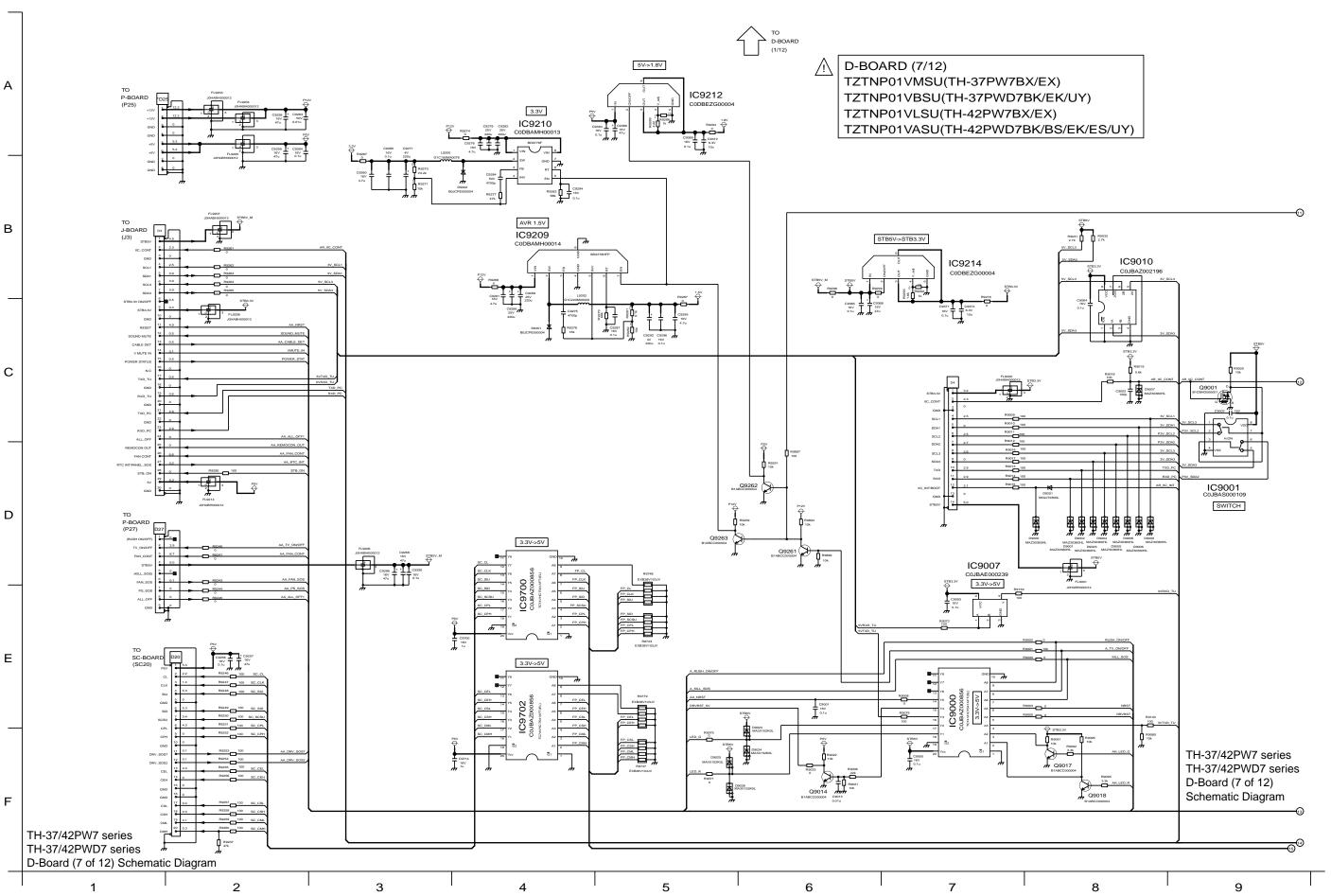
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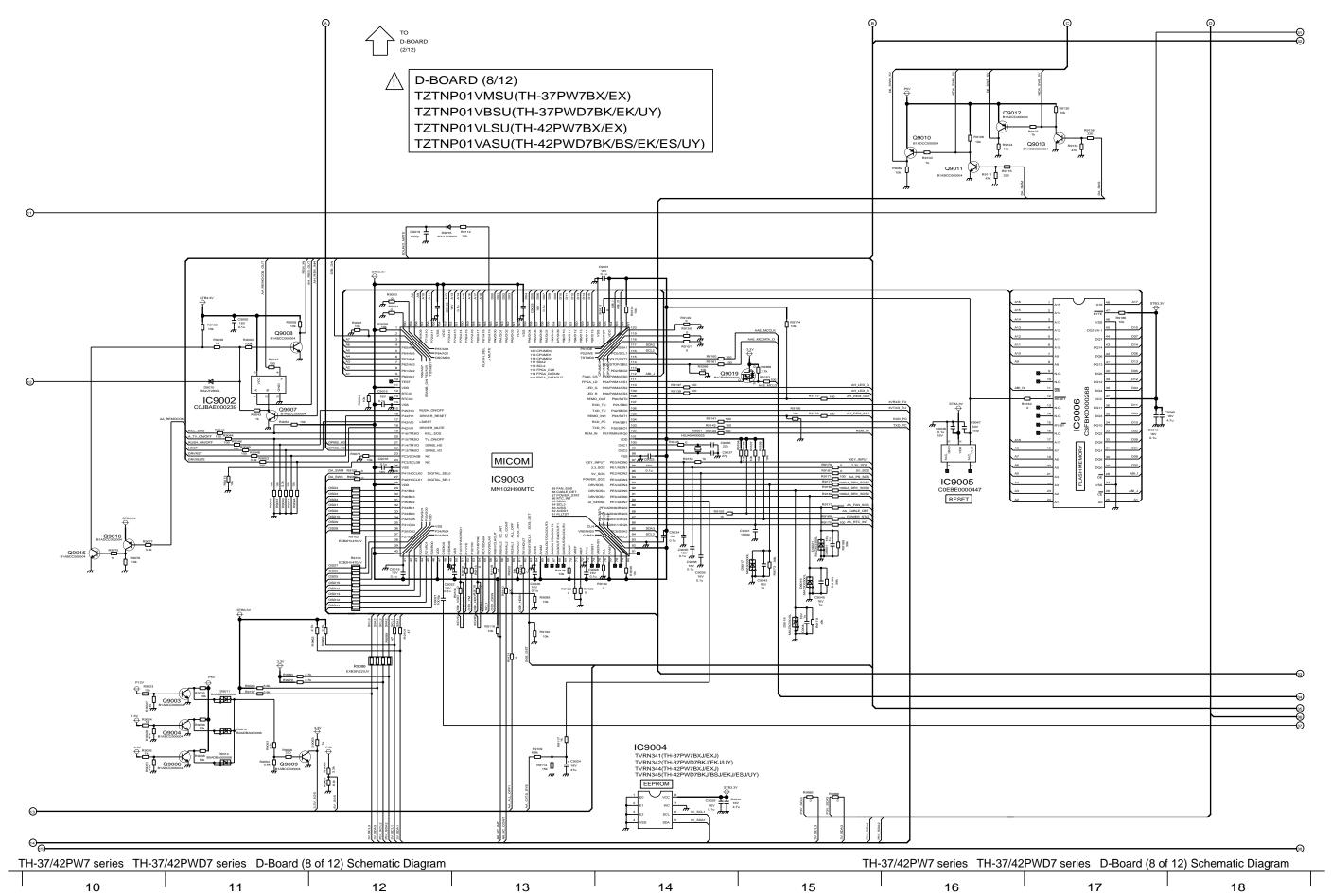
D-BOARD (6/12)
TZTNP01VMSU(TH-37PW7BX/EX)
TZTNP01VBSU(TH-37PWD7BK/EK/UY)
TZTNP01VLSU(TH-42PW7BX/EX)
TZTNP01VASU(TH-42PWD7BK/BS/EK/ES/UY)

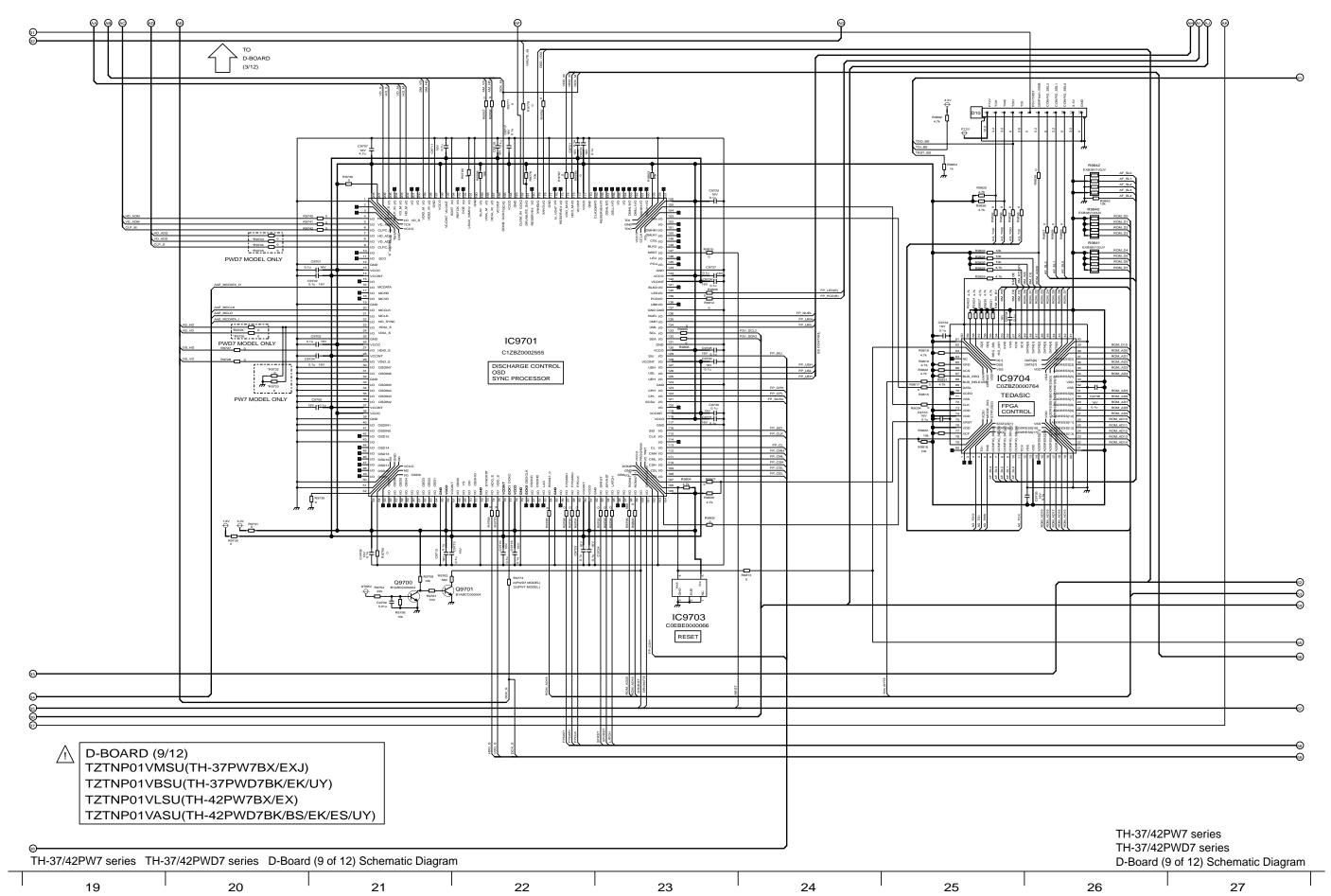


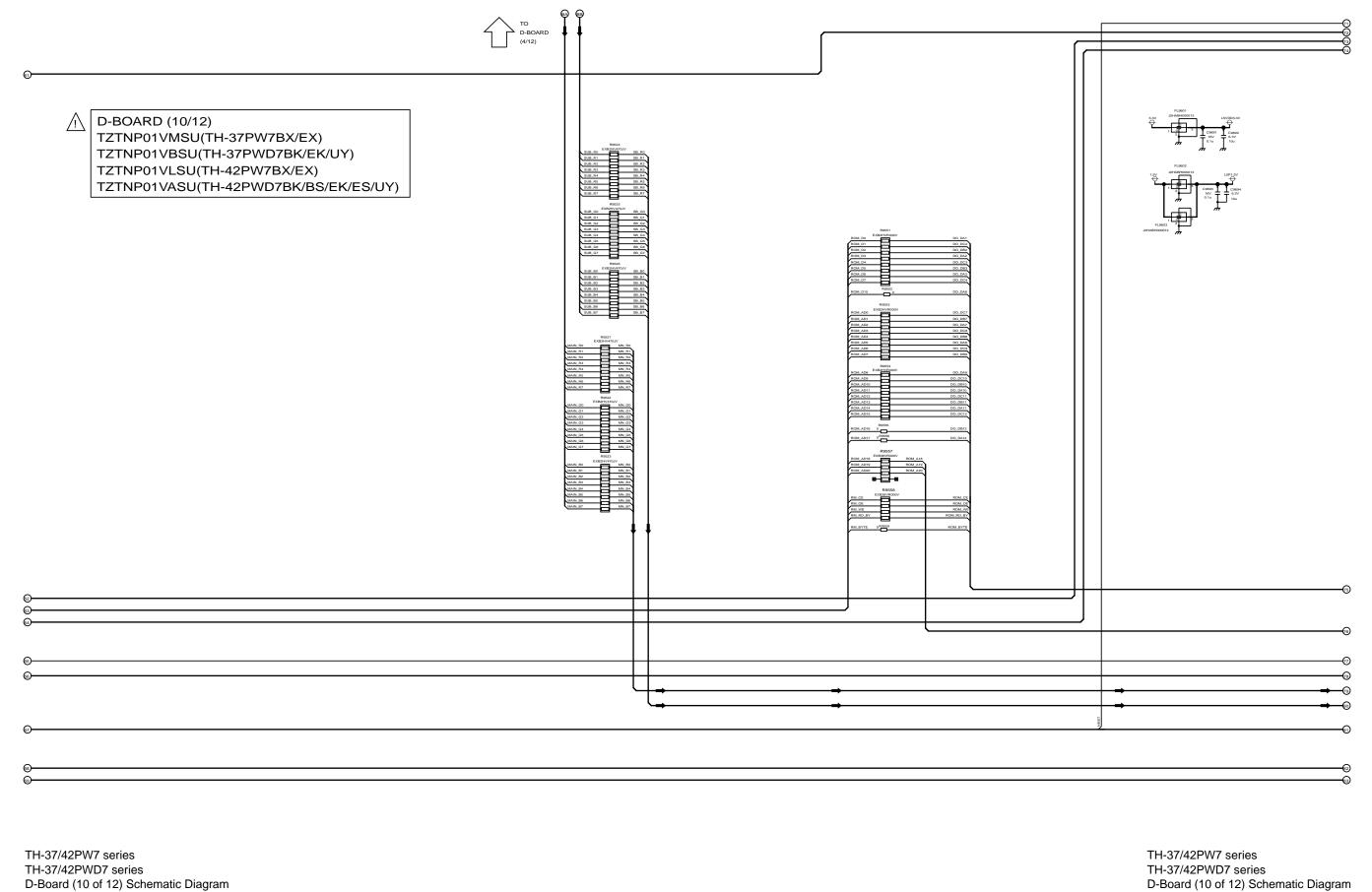
TH-37/42PW7 series TH-37/42PWD7 series D-Board (6 of 12) Schematic Diagram

46 47 48 49 50 51 52 53 54

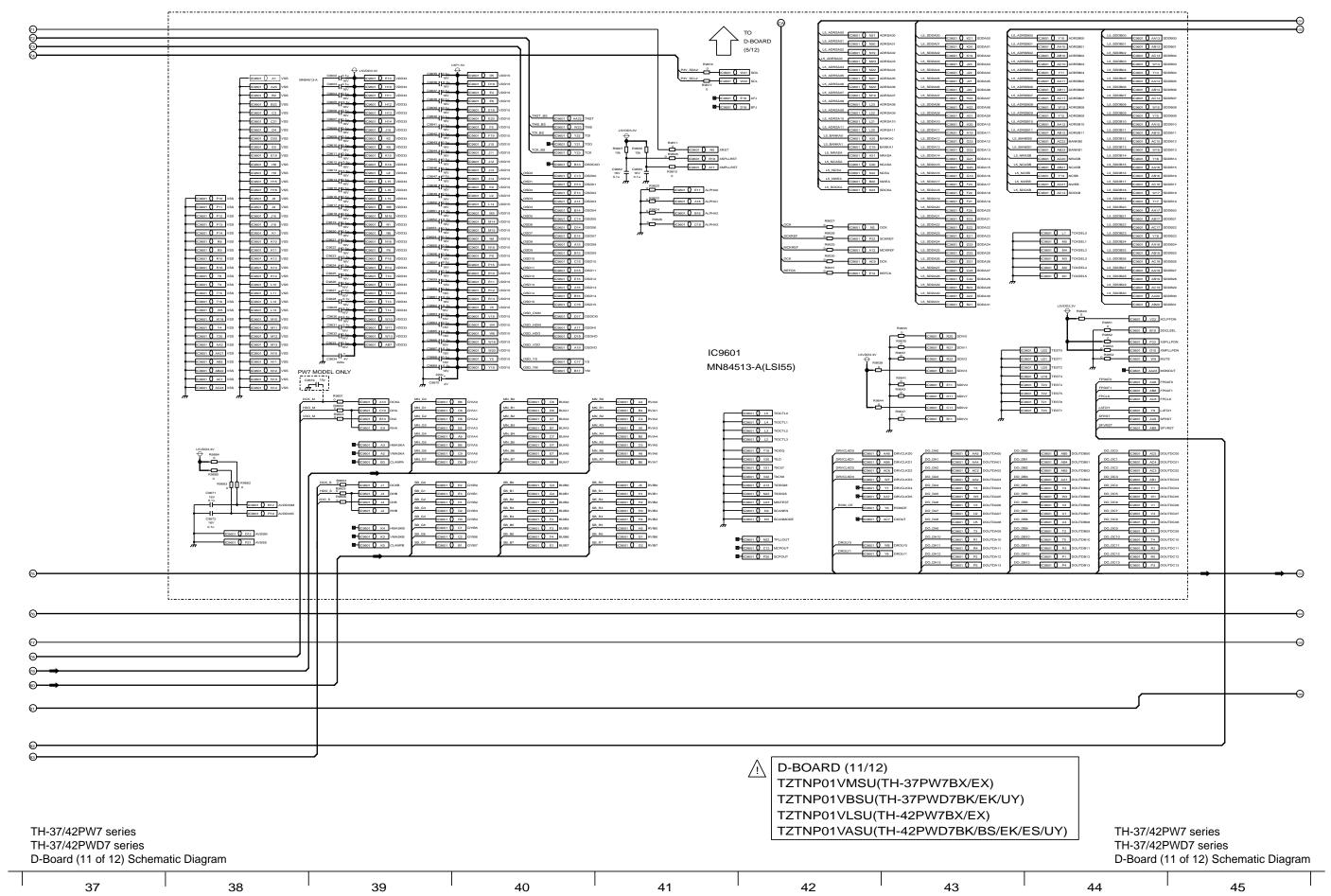




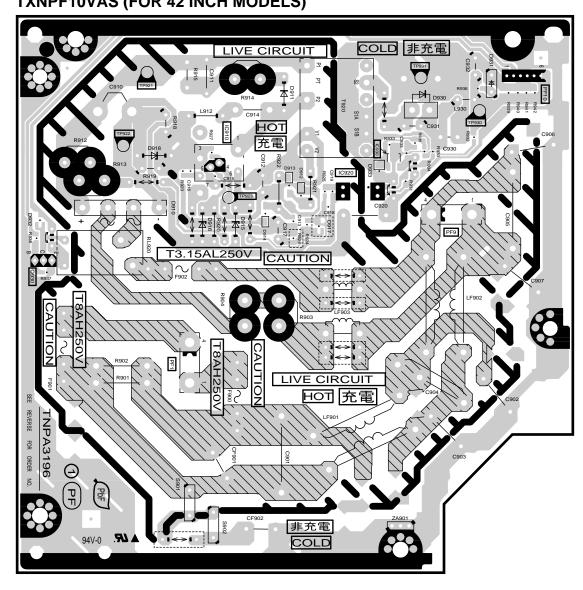


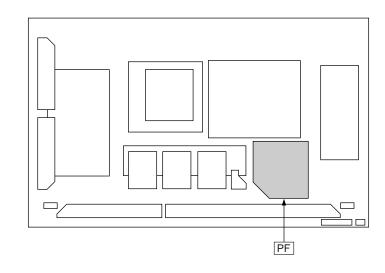


28 29 30 31 32 33 34 35 36



# PF-BOARD(FOIL SIDE) TXNPF10VAS (FOR 42 INCH MODELS)





#### **Parts Location**

	PF-BOARD (FOIL SIDE)					
IC		TP				
IC910 IC920 IC930	C-5 D-4 D-4	TP921 TP922 TP923	B-5 B-5 C-4			
TRANSISTO	R	TP930 TP931	E-5 D-5			
Q930	B-4					

G

TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY PF-BOARD TXNPF10VAS

Α

В

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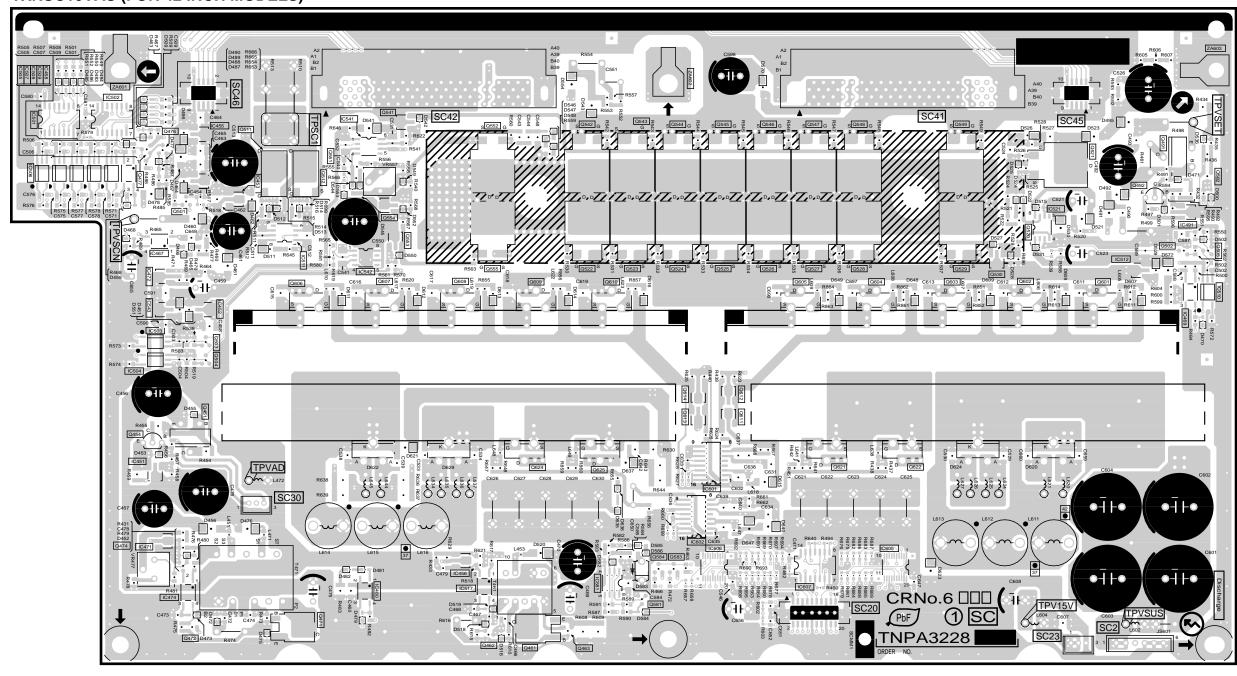
D

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6

SC-BOARD(COMPONENT SIDE) TXNSC10VBS (FOR 37 INCH MODELS) TXNSC10VAS (FOR 42 INCH MODELS)

6



Ε

TH-37PW7BX/EX TH-37PWD7BK/EK/UY SC-BOARD TXNSC10VBS SC-BOARD TXNSC10VAS

Α

TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY

С

D

TH-37PW7BX/EX TH-37PWD7BK/EK/UY SC-BOARD TXNSC10VBS

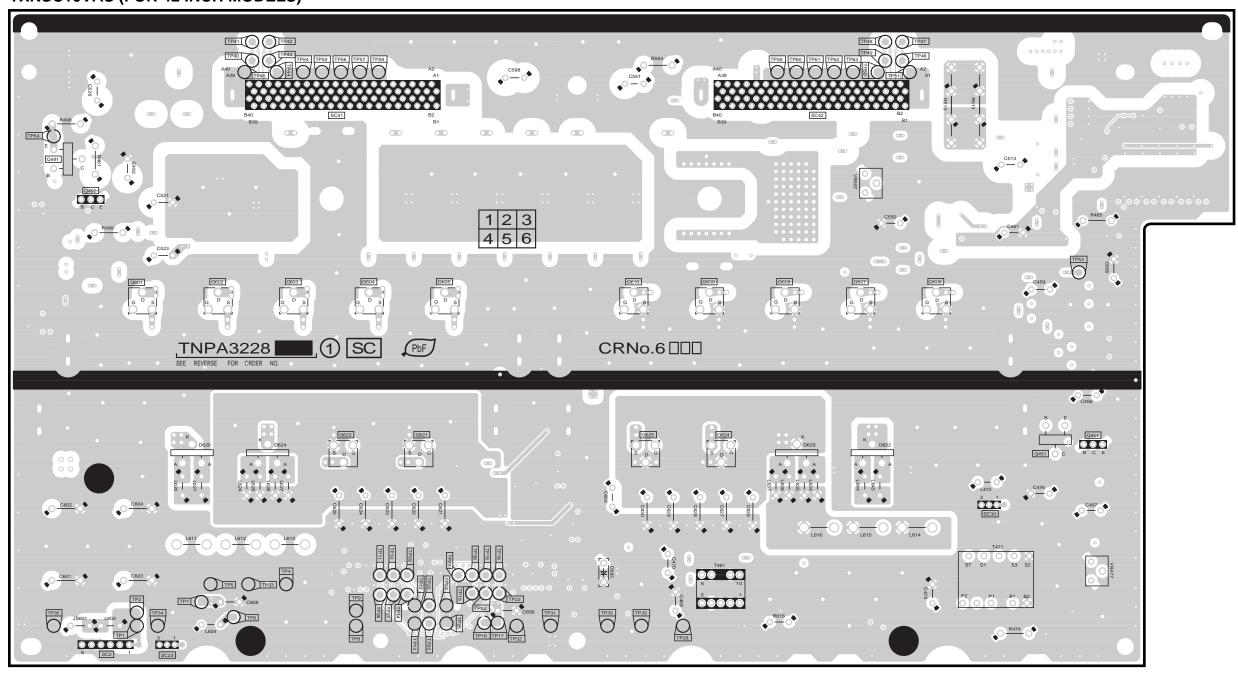
TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SC-BOARD TXNSC10VAS

SC-BOARD(FOIL SIDE) TXNSC10VBS (FOR 37 INCH MODELS) **TXNSC10VAS (FOR 42 INCH MODELS)** 

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TH-37PW7BX/EX TH-37PWD7BK/EK/UY

Α

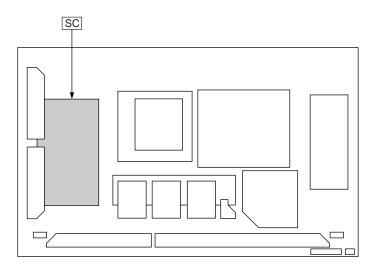
TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SC-BOARD TXNSC10VBS SC-BOARD TXNSC10VAS

С

В

TH-37PW7BX/EX TH-37PWD7BK/EK/UY SC-BOARD TXNSC10VBS

TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SC-BOARD TXNSC10VAS



#### **Parts Location**

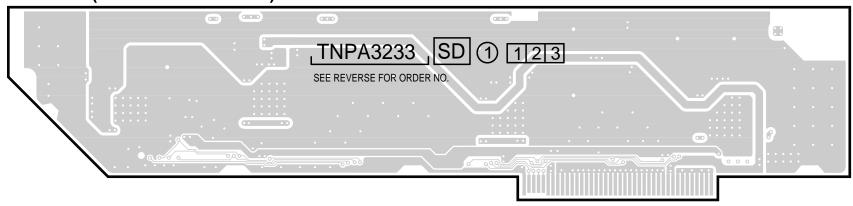
	SC-BOARD (FOIL SIDE)					
TRANSISTO	R	TP		TP28	C-2	
TRANSISTO  Q6451 Q6491 Q6492 Q6601 Q6602 Q6603 Q6604 Q6605 Q6606 Q6607 Q6608 Q6609 Q6610 Q6621 Q6622 Q6624 Q6625	H-3 A-5 A-4 B-4 C-4 C-4 C-4 F-4 F-4 E-4 E-4 D-3 C-3 F-3 E-3	TP1 TP2 TP4 TP5 TP6 TP7 TP8 TP9 TP10 TP11 TP12 TP13 TP14 TP15 TP16 TP17 TP18 TP19 TP20 TP21 TP22 TP23	B-2 B-2 C-2 B-2 B-2 C-2 C-2 C-2 C-2 C-2 D-1 C-2 D-2 D-2 D-2 D-2 D-2 D-2 D-2 D-2 D-2 D	TP28 TP28 TP29 TP30 TP31 TP31 TP32 TP33 TP34 TP35 TP38 TP39 TP40 TP41 TP42 TP43 TP44 TP45 TP52 TP53 TP54 TP55 TP56 TP57 TP58	C-2 E-2 E-2 D-2 D-2 B-2 B-2 A-2 D-2 C-2 B-5 B-5 C-5 C-5 C-5 C-5 C-5 C-5 C-5 C-5 C-5 C	
		TP24 TP25 TP27	D-2 D-2 C-2	TP64	A-5	

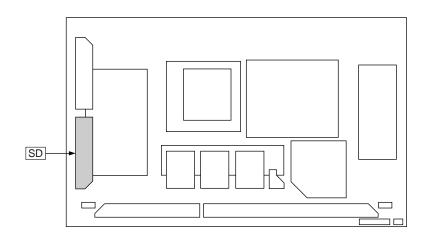
#### **Parts Location**

	SC-BOARD (COMPONENT SIDE)						
IC		TRANSISTO	R	Q6548	F-5		
100454	D.O.	00454	D.O.	Q6549	G-5		
IC6451	B-3	Q6451	B-3	Q6551	C-5		
IC6452	B-4	Q6454	B-3	Q6552	D-5		
IC6453	B-4	Q6461	D-1	Q6553	C-4		
IC6454	B-4	Q6462	D-1	Q6554	C-4		
IC6455	B-5	Q6463	E-1	Q6555	D-4		
IC6456	D-2	Q6471	C-2	Q6581	E-2		
IC6458	A-5	Q6472	B-1	Q6582	I-5		
IC6467	B-4	Q6474	B-2	Q6583	E-2		
IC6469	I-4	Q6476	B-5	Q6584	E-2		
IC6471	B-2	Q6477	B-5	Q6601	H-4		
IC6472	B-4	Q6491	H-5	Q6602	H-4		
IC6474	B-2	Q6492	H-4	Q6603	G-4		
IC6480	C-2	Q6501	B-4	Q6604	G-4		
IC6491	I-4	Q6502	H-4	Q6605	F-4		
IC6501	A-5	Q6503	B-3	Q6606	C-4		
IC6502	A-5	Q6504	B-3	Q6607	C-4		
IC6503	B-3	Q6505	I-4	Q6608	D-4		
IC6504	B-3	Q6511	B-5	Q6609	D-4		
IC6505	A-5	Q6512	C-5	Q6610	E-4		
IC6506	A-5	Q6520	H-4	Q6611	F-3		
IC6507	A-5	Q6521	H-5	Q6612	F-3		
IC6508	A-5	Q6522	E-4	Q6613	E-3		
IC6509	A-5	Q6523	E-4	Q6614	E-3		
IC6510	I-4	Q6524	E-4	Q6621	F-3		
IC6511	C-4	Q6525	F-4	Q6622	G-3		
IC6512	H-4	Q6526	F-4	Q6624	D-3		
IC6517	D-2	Q6527	F-4	Q6625	E-3		
IC6521	H-4	Q6528	F-4	Q0023	L-3		
IC6541	C-5	Q6529	G-4	TP			
IC6542	C-4	Q6530	G-4	TPV15V	H-2		
IC6543	B-4	Q6541	C-5				
IC6581	E-2	Q6542	E-5	TPVAD	B-3		
IC6601	E-2	Q6543	E-5	TPVSET	I-5		
IC6602	E-2	Q6544	E-5	TPVSUS	H-2		
IC6602	E-2	Q6545	F-5				
IC6605	G-2	Q6546	F-5				
IC6607	F-2	Q6547	F-5				



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#### **Parts Location**

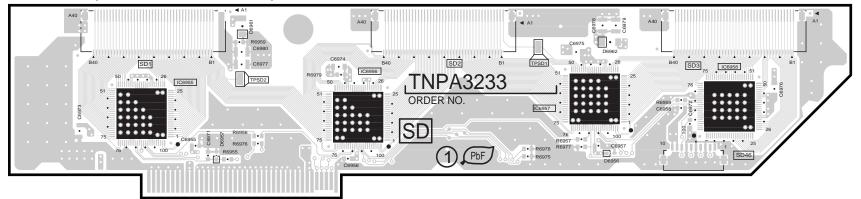
G

SD-BOARD					
IC		TP			
IC6955	B-2	TPSD1	D-2		
IC6956	C-2	TPSD2	B-2		
IC6957	D-2				
IC6958	E-2				

Н

#### SD-BOARD(COMPONENT SIDE) TNPA3233 (FOR 37 INCH MODELS)

В



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TH-37PW7BX/EX TH-37PWD7BK/EK/UY SD-BOARD TNPA3233

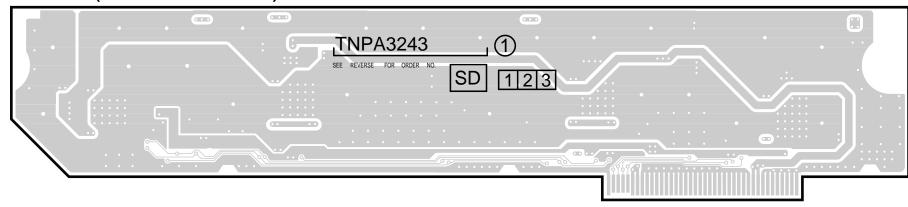
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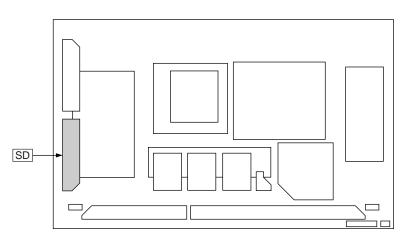
TH-37PW7BX/EX TH-37PWD7BK/EK/UY SD-BOARD TNPA3233

# SD-BOARD(FOIL SIDE) TNPA3243 (FOR 42 INCH MODELS)

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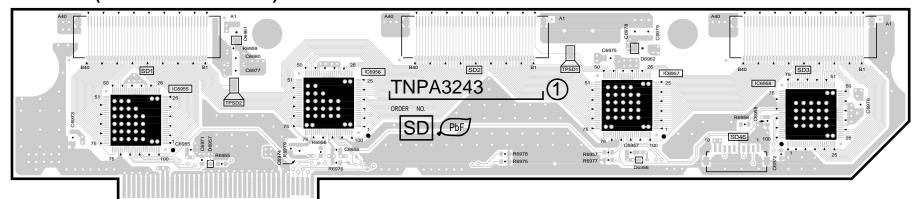
#### **Parts Location**

SD-BOARD					
IC		TP			
IC6955	B-2	TPSD1	D-2		
IC6956	C-2	TPSD2	B-2		
IC6957	E-2				
IC6958	F-2				

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#### SD-BOARD(COMPONENT SIDE) TNPA3243 (FOR 42 INCH MODELS)



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TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SD-BOARD TNPA3243

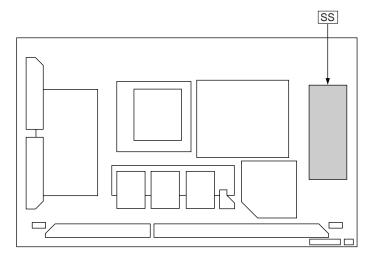
В

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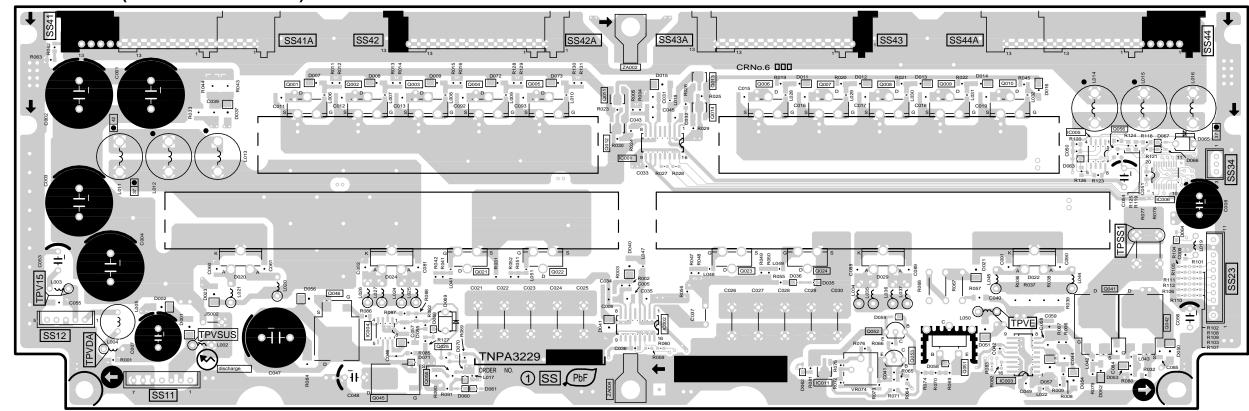
TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SD-BOARD TNPA3243

#### **Parts Location**

		SS-BOARD (CO	OMPONENT S	SIDE)	
IC		TRANSIST	OR	Q6024	F-2
IC6001 IC6002 IC6003 IC6004 IC6005 IC6006 IC6011	E-3 E-2 G-1 C-2 H-3 H-2 F-1	Q6001 Q6002 Q6003 Q6004 Q6005 Q6006 Q6007 Q6008 Q6009	C-3 C-3 C-3 D-3 D-3 F-3 F-3 G-3 G-3	Q6025 Q6041 Q6042 Q6045 Q6046 Q6051 Q6052 Q6053 Q6055 Q6055	D-1 H-2 H-2 C-1 C-2 G-1 F-2 G-1 D-1 H-3
		Q6011 Q6012 Q6013 Q6014 Q6021 Q6022 Q6023	E-3 E-3 E-3 E-3 D-2 D-2	TP  TPSS1 TPV15 TPVDA TPVE TPVSUS	H-2 A-2 A-1 G-2 B-2



SS-BOARD(COMPONENT SIDE) TXNSS10VBS (FOR 37 INCH MODELS) **TXNSS10VAS (FOR 42 INCH MODELS)** 



TH-37PW7BX/EX TH-37PWD7BK/EK/UY

Α

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TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SS-BOARD TXNSS10VBS SS-BOARD TXNSS10VAS

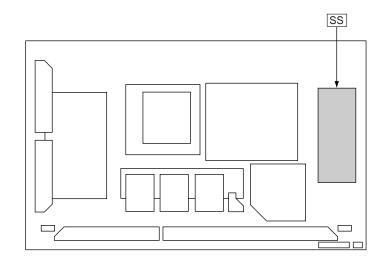
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TH-37PW7BX/EX TH-37PWD7BK/EK/UY SS-BOARD TXNSS10VBS

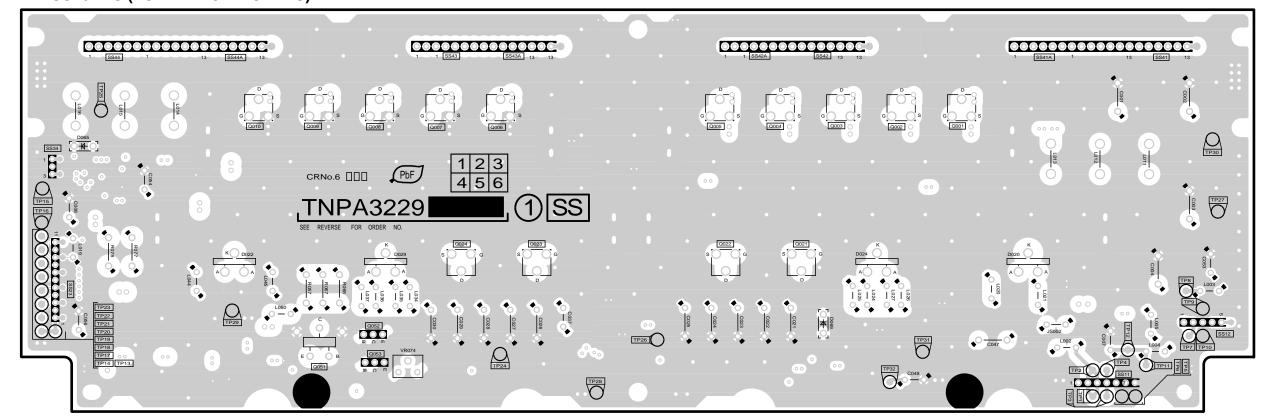
TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SS-BOARD TXNSS10VAS

	Parts
6	TRAN

SS-BOARD (FOIL SIDE)						
RANSISTOR						
Q6001 G-3 Q6002 G-3 Q6003 F-3 Q6004 F-3 Q6005 E-3 Q6006 D-3 Q6007 D-3 Q6008 C-3 Q6009 C-3 Q6010 B-3 Q6021 F-2 Q6022 E-2 Q6023 D-2 Q6024 D-2 Q6051 C-1 Q6052 C-2						



SS-BOARD(FOIL SIDE) TXNSS10VBS (FOR 37 INCH MODELS) TXNSS10VAS (FOR 42 INCH MODELS)



Ε

TH-37PW7BX/EX TH-37PWD7BK/EK/UY

Α

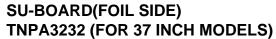
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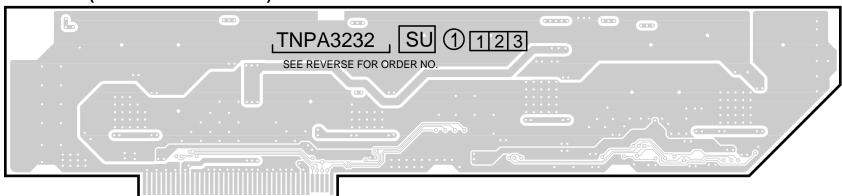
TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SS-BOARD TXNSS10VBS SS-BOARD TXNSS10VAS

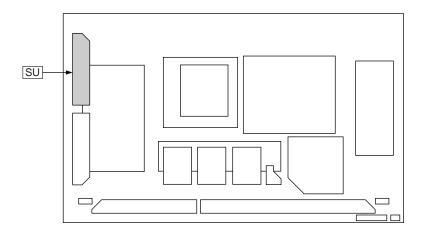
С

TH-37PW7BX/EX TH-37PWD7BK/EK/UY SS-BOARD TXNSS10VBS TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SS-BOARD TXNSS10VAS



2





#### **Parts Location**

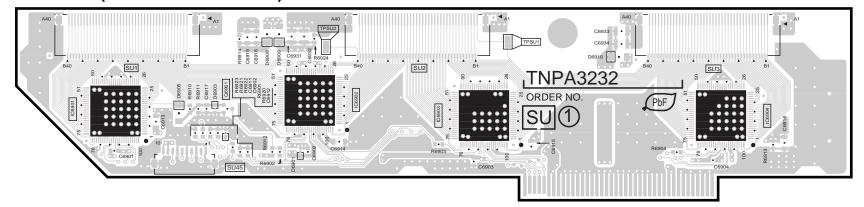
G

SU-BOARD					
IC		TP			
IC6901	A-2	TPSU1	D-2		
IC6902	C-2	TPSU2	C-2		
IC6903	D-2				
IC6904	F-2				
TRANSISTO	R				
Q6901	B-2				

Н

#### SU-BOARD(COMPONENT SIDE) TNPA3232 (FOR 37 INCH MODELS)

В



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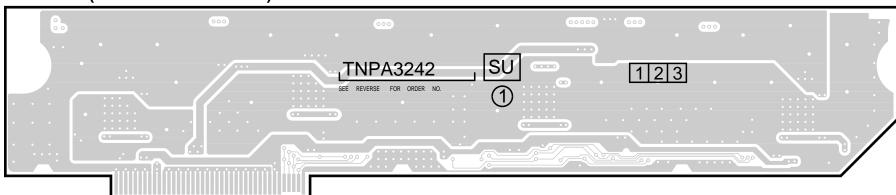
TH-37PW7BX/EX TH-37PWD7BK/EK/UY SU-BOARD TNPA3232

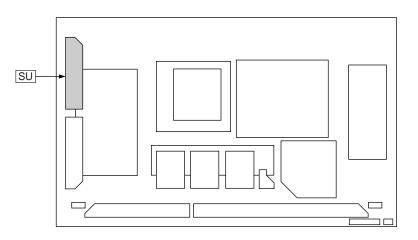
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TH-37PW7BX/EX TH-37PWD7BK/EK/UY SU-BOARD TNPA3232

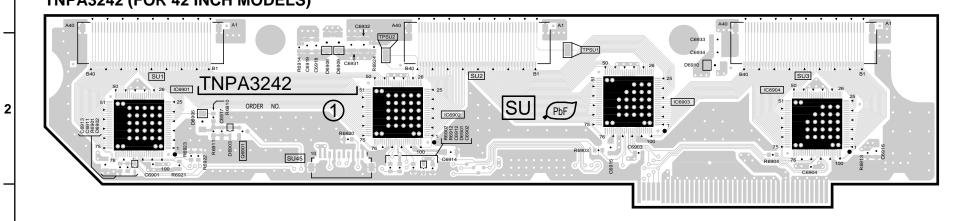
# SU-BOARD(FOIL SIDE) TNPA3242 (FOR 42 INCH MODELS)

5





#### SU-BOARD(COMPONENT SIDE) TNPA3242 (FOR 42 INCH MODELS)



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#### **Parts Location**

	SU	-BOARD	
IC		TP	
IC6901 IC6902 IC6903 IC6904	B-2 C-2 E-2 F-2	TPSU1 TPSU2	D-2 C-2
TRANSISTO	R		
Q6901	B-2		

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TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SU-BOARD TNPA3242

В

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TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY SU-BOARD TNPA3242

#### V1-BOARD(FOIL SIDE) TXNV110VAS

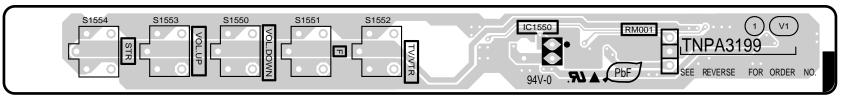
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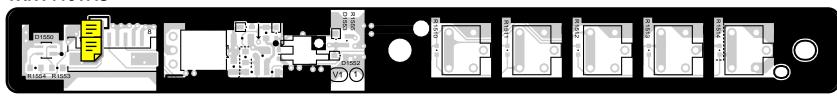
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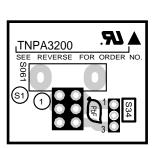
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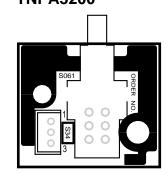
#### V1-BOARD(COMPONENT SIDE) TXNV110VAS



#### S1-BOARD(FOIL SIDE) TNPA3200



S1-BOARD(COMPONENT SIDE)
TNPA3200



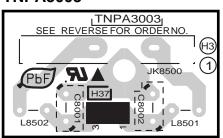
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#### H3-BOARD TNPA3003

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TH-37PW7BX/EX TH-37PW7BK/EK/UY TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY V1-BOARD TXNV110VAS S1-BOARD TNPA3200 H3-BOARD TNPA3003

В

TH-37PW7BX/EX
TH-37PW7BK/EK/UY
TH-42PW7BX/EX
TH-42PWD7BK/BS/EK/ES/UY
V1-BOARD TXNV110VAS S1-BOARD TNPA3200
H3-BOARD TNPA3003

Н

G

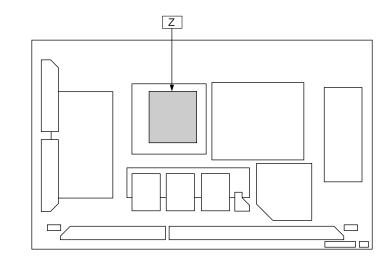
H3 V1

#### Parts Location

		Z-BOARD (	FOIL SIDE)		
IC		TP		TP2346	C-2
IC802	B-3	TP2303	D-2	TP2347	C-3
	1			TP2348	C-2
IC804	A-3	TP2304	D-2	TP2349	C-2
IC2301	B-3	TP2308	D-2	TP2350	D-3
IC2302	C-4	TP2309	C-2	TP2353	D-3
IC2401	C-3	TP2328	B-2	TP2357	C-2
TRANSISTO	P	TP2333	D-2	TP2359	D-3
TINAMOIOTO	1	TP2334	C-3	TP2362	D-2
Q2330	B-4	TP2335	D-3	TP2363	D-2
Q2331	D-4	TP2336	D-2	TP2365	D-2
TP		TP2337	C-2	TP2366	C-3
IP		TP2338	C-2	TP2367	C-3
TP091	B-3	TP2340	C-2	TP2368	C-3
TP092	B-3	TP2341	C-2	TP2369	C-3
TP093	C-4	TP2342	C-3	TP2370	C-3
TP094	C-4	TP2343	C-3	TP2371	B-3
TP2301	D-2	TP2344	C-2	TP2372	C-3
TP2302	D-2	TP2345	C-3	TP2379	D-3

#### Parts Location

		Z-BOARD (CO	MPONENT SI	IDE)	
IC		Q2303	F-3	TRANSISTO	R
IC801 IC802 IC803 IC804 IC2301 IC2302 IC2304 IC2401	G-2 G-2 H-1 H-3 G-3 F-4 G-2 G-2	Q2304 Q2305 Q2306 Q2330 Q2331 Q2333 Q2334 Q2335 Q2336	E-3 F-3 F-3 G-3 F-4 G-3 G-3 H-3	TP2331 TP2332 TP2339 TP2351 TP2354 TP2355 TP2364	F-2 F-2 F-3 F-2 F-2 F-3 E-3
TRANSIST	OR .	Q2370	H-3		
Q801 Q802 Q803 Q804 Q805 Q2301 Q2302	H-3 H-4 G-4 G-4 G-4 F-2 F-3	Q2371 Q2406 Q2408 Q2410	H-2 F-2 E-2 F-2		



#### Z-BOARD(FOIL SIDE) TNPA3198AB

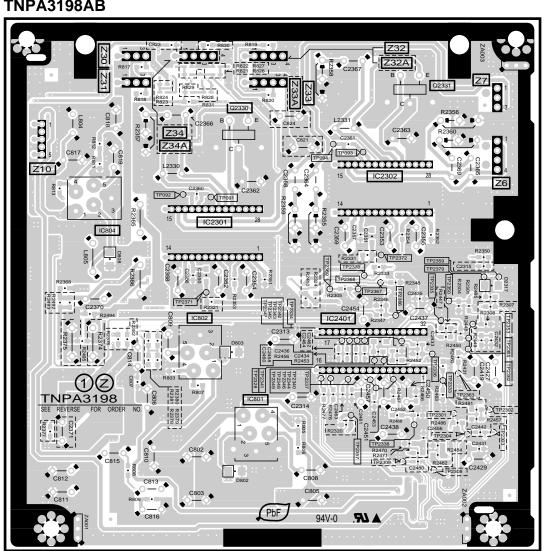
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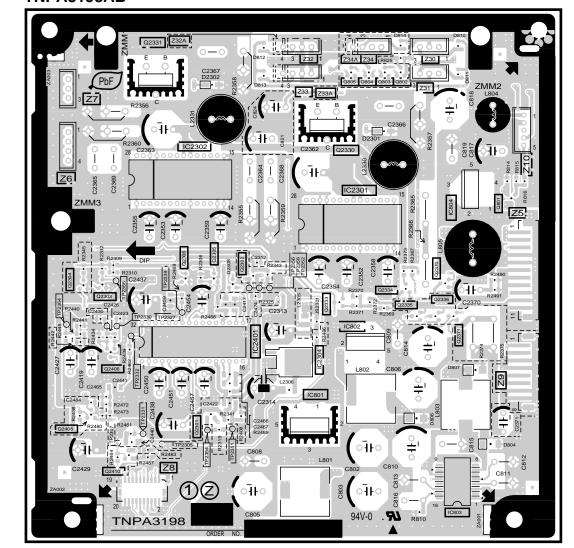


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#### Z-BOARD(COMPONENT SIDE) TNPA3198AB



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TH-37PW7BX/EX TH-37PWD7BK/EK/UY TH-42PW7BX/EX TH-42PWD7BK/ES/EK/ES/UY Z-BOARD TNPA3198AB

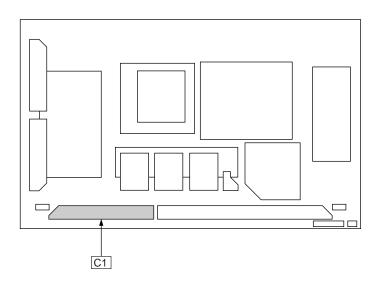
В

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TH-37PW7BX/EX
TH-37PWD7BK/EK/UY
TH-42PW7BX/EX
TH-42PWD7BK/ES/EK/ES/UY
Z-BOARD TNPA3198AB

#### **Parts Location**

C1-BOARD					
IC					
IC7101	F-2				
IC7103	F-2				
IC7104	E-2				
IC7105	E-2				
IC7106	E-2				

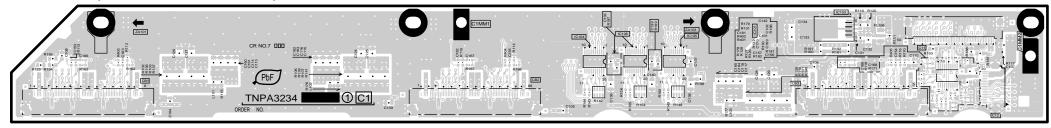


## C1-BOARD(FOIL SIDE) TNPA3234 (FOR 37 INCH MODELS)



# C1-BOARD(COMPONENT SIDE) TNPA3234 (FOR 37 INCH MODELS)

В



TH-37PW7BX/EX TH-37PWD7BK/EK/UY C1-BOARD TNPA3234

Α

TH-37PW7BX/EX TH-37PWD7BK/EK/UY C1-BOARD TNPA3234

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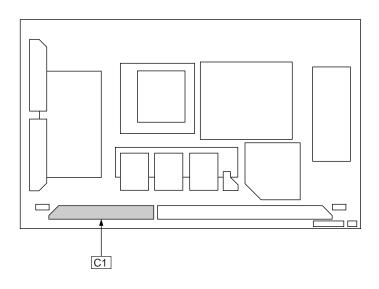
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#### TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY C1-BOARD TNPA3244

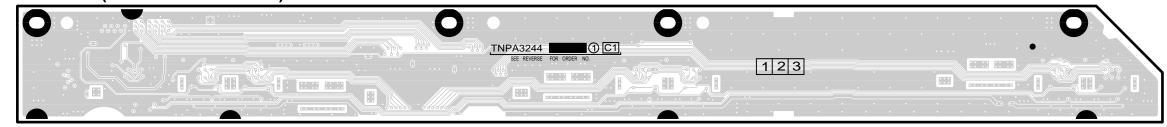
Α

#### **Parts Location**

C1-BOARD						
G-2						
E-2						
F-2						
F-2						
G-1						
G-2						
	G-2 E-2 F-2 F-2 G-1	G-2 E-2 F-2 F-2 G-1	G-2 E-2 F-2 F-2 G-1			



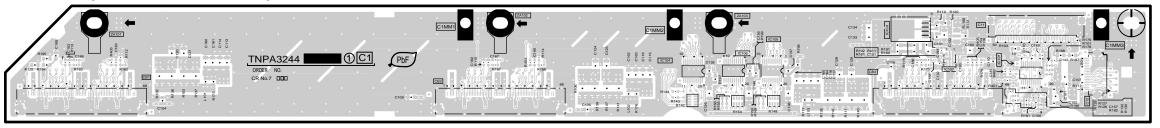
# C1-BOARD(FOIL SIDE) TNPA3244 (FOR 42 INCH MODELS)



### C1-BOARD(COMPONENT SIDE) TNPA2869 (FOR 42 INCH MODELS)

В

С



D

TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY C1-BOARD TNPA3244

F

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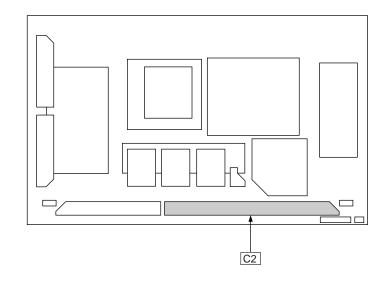


TH-37PW7BX/EX TH-37PWD7BK/EK/UY C2-BOARD TNPA3235

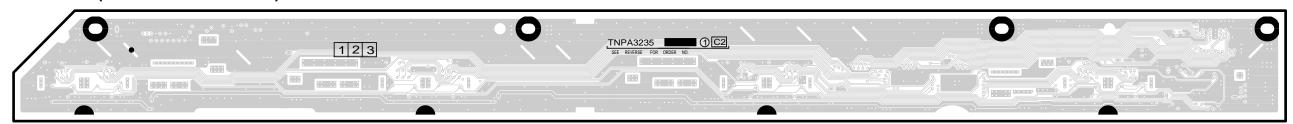
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#### **Parts Location**

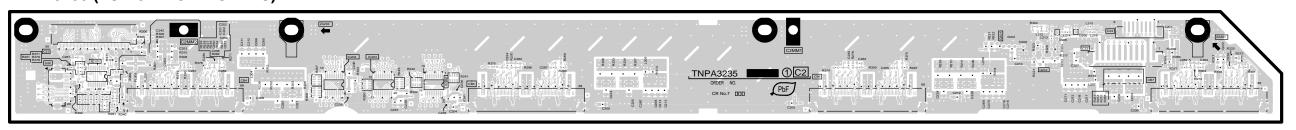
C2-BOARD						
IC		TRANSISTO	R			
IC7201	A-1	Q7201	G-2			
IC7202	D-1	Q7202	H-1			
IC7203	C-1					
IC7204	C-1					



#### C2-BOARD(FOIL SIDE) **TNPA3235 (FOR 37 INCH MODELS)**



#### C2-BOARD(COMPONENT SIDE) **TNPA3235 (FOR 37 INCH MODELS)**



TH-37PW7BX/EX TH-37PWD7BK/EK/UY C2-BOARD TNPA3235

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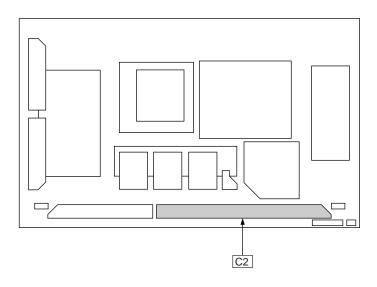
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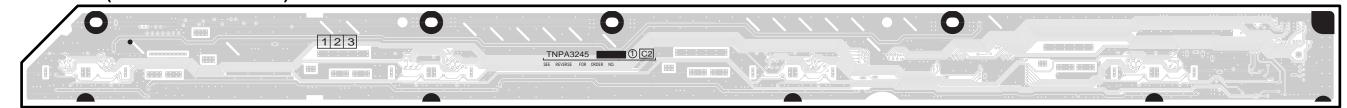
#### Parts Location

C2-BOARD						
IC TRANSISTOR						
A-1	Q7201	H-2				
D-1	Q7202	H-1				
C-1						
C-1						
B-2						
	A-1 D-1 C-1 C-1	A-1 Q7201 D-1 Q7202 C-1 C-1				



C2-BOARD(FOIL SIDE)
TNPA3245 (FOR 42 INCH MODELS)

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#### C2-BOARD(COMPONENT SIDE) TNPA3245

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TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY C2-BOARD TNPA3245

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TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY C2-BOARD TNPA3245

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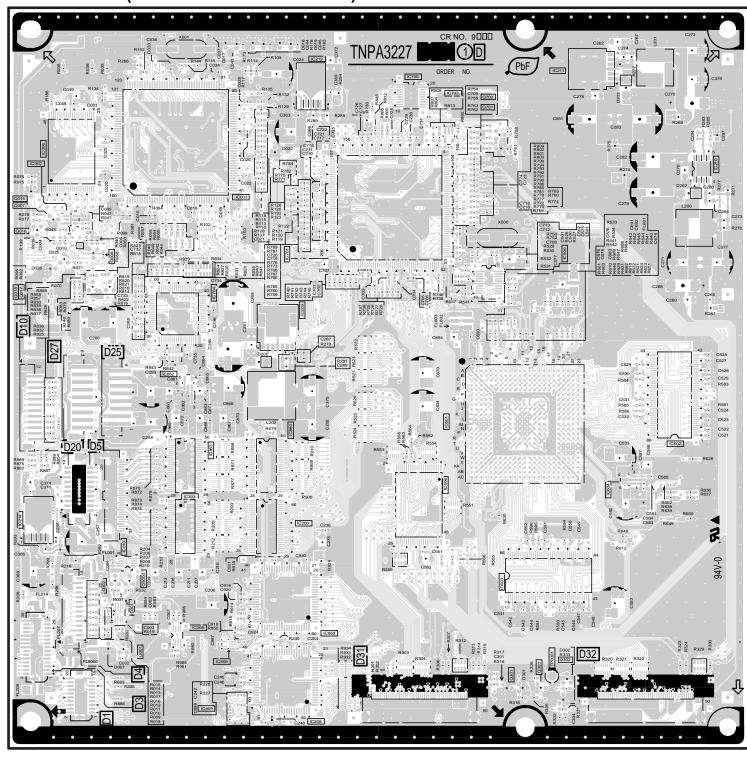
D-BOARD(COMPONENT SIDE)
TZTNP01VMSU (TH-37PW7BX/EX)
TZTNP01VBSU (TH-37PWD7BK/EK/UY)
TZTNP01VLSU (TH-42PW7BX/EX)
TZTNP01VASU (TH-42PWD7BK/BS/EK/ES/UY)

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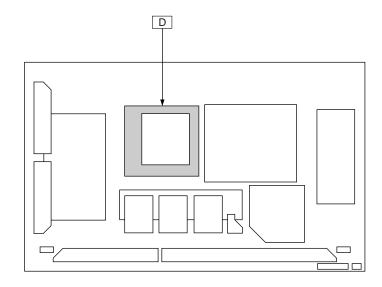
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#### **Parts Location**

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D-BOARD (COMPONENT SIDE)					
IC		TRANSISTO	R		
IC9001	B-2	Q9000	B-2		
IC9002	A-5	Q9001	B-2		
IC9003	B-5	Q9002	B-2		
IC9006	A-5	Q9007	A-5		
IC9008	B-2	Q9008	B-4		
IC9010	B-2	Q9015	A-5		
IC9200	C-2	Q9016	A-4		
IC9203	B-3	Q9017	A-4		
IC9208	C-1	Q9018	A-4		
IC9209	C-4	Q9301	D-1		
IC9210	F-5	Q9302	E-2		
IC9211	E-5	Q9303	D-1		
IC9212	C-6	Q9700	D-5		
IC9214	A-2	Q9701	D-5		
IC9500	E-4	TRANSISTO	D		
IC9506	D-2	TRANSISTO	`		
IC9601	D-3	TP0001	E-1		
IC9602	E-3				
IC9603	D-2				
IC9604	E-3				
IC9701	C-4				
IC9703	D-5				
IC9704	B-4				
IC9706	D-5				
IC9860	C-3				
IC9862	B-3				
IC9863	B-3				
IC9869	C-2				
IC9888	B-2				
IC9899	B-1				

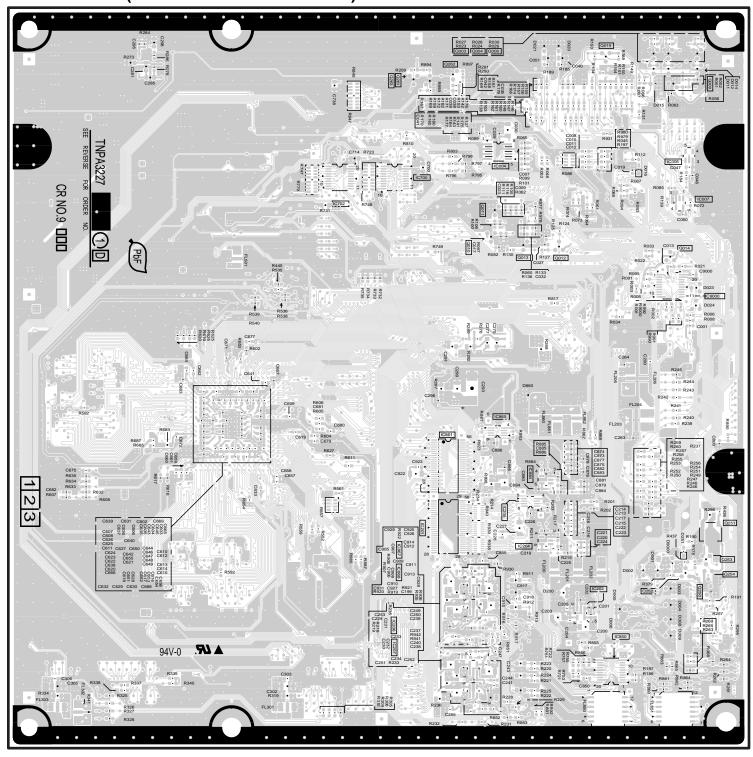
TH-37PW7BX/EX D-BOARD TZTNP01VMSU
TH-37PWD7BK/EK/UY D-BOARD TZTNP01VBSU
TH-42PW7BX/EX D-BOARD TZTNP01VLSU
TH-42PWD7BK/BS/EK/ES/UY D-BOARD TZTNP01VASU

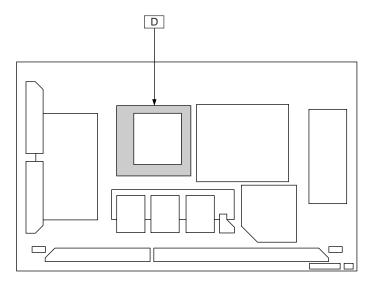
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TH-37PWD7BK/EK/UY D-BOARD TZTNP01VBSU
TH-42PW7BX/EX D-BOARD TZTNP01VLSU
TH-42PWD7BK/BS/EK/ES/UY D-BOARD TZTNP01VASU

D-BOARD(FOIL SIDE)
TZTNP01VMSU (TH-37PW7BX/EX)
TZTNP01VBSU (TH-37PWD7BK/EK/UY)
TZTNP01VLSU (TH-42PW7BX/EX)
TZTNP01VASU (TH-42PWD7BK/BS/EK/ES/UY)

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#### **Parts Location**

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	D-BOARD (FOIL SIDE)					
IC		TRANSISTO	R			
IC9000	F-4	Q9003	D-6			
IC9004	D-5	Q9004	D-6			
IC9005	E-5	Q9006	D-6			
IC9007	F-5	Q9009	F-5			
IC9201	D-2	Q9010	D-4			
IC9202	E-2	Q9011	D-5			
IC9204	D-2	Q9012	E-4			
IC9205	D-2	Q9013	D-4			
IC9206	D-2	Q9014	E-4			
IC9207	D-2	Q9019	E-6			
IC9700	D-5	Q9250	F-2			
IC9702	C-5	Q9251	F-2			
IC9850	E-2	Q9252	E-2			
IC9861	D-3	Q9253	F-2			
IC9864	D-3	Q9254	F-2			
IC9866	D-3	Q9261	D-5			
IC9867	D-2	Q9262	D-6			
IC9868	D-2	Q9263	D-5			

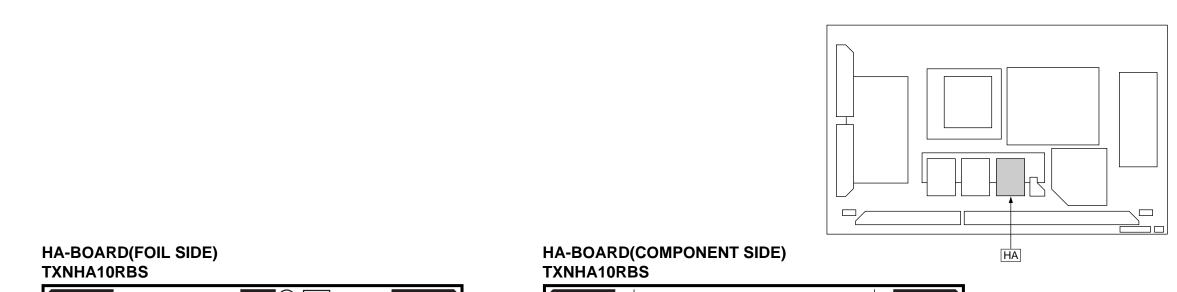
TH-37PW7BX/EX D-BOARD TZTNP01VMSU
TH-37PWD7BK/EK/UY D-BOARD TZTNP01VBSU
TH-42PW7BX/EX D-BOARD TZTNP01VLSU
TH-42PWD7BK/BS/EK/ES/UY D-BOARD TZTNP01VASU

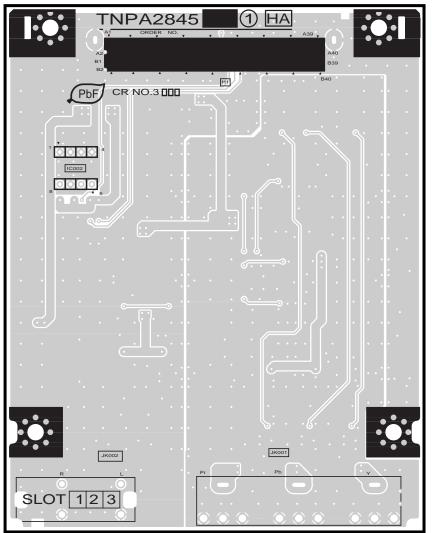
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TH-37PW7BX/EX D-BOARD TZTNP01VMSU
TH-37PWD7BK/EK/UY D-BOARD TZTNP01VBSU
TH-42PW7BX/EX D-BOARD TZTNP01VLSU
TH-42PWD7BK/BS/EK/ES/UY D-BOARD TZTNP01VASU

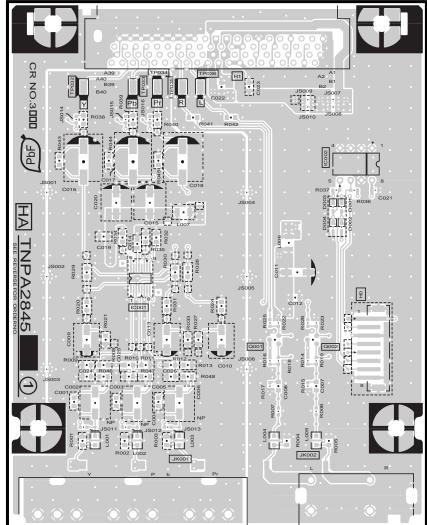




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#### **Parts Location**

HA-BOARD						
IC		TP				
IC3001	E-3	TP3032	E-4			
IC3002	F-4	TP3033	E-4			
TDANICICTO		TP3034	E-4			
TRANSISTO	K	TP3035	E-4			
Q3001	F-2	TP3036	E-4			
Q3002	F-2					

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TH-37PW7BX/EX TH-37PWD7BK/EK/UY TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY HA-BOARD TXNHA10RBS

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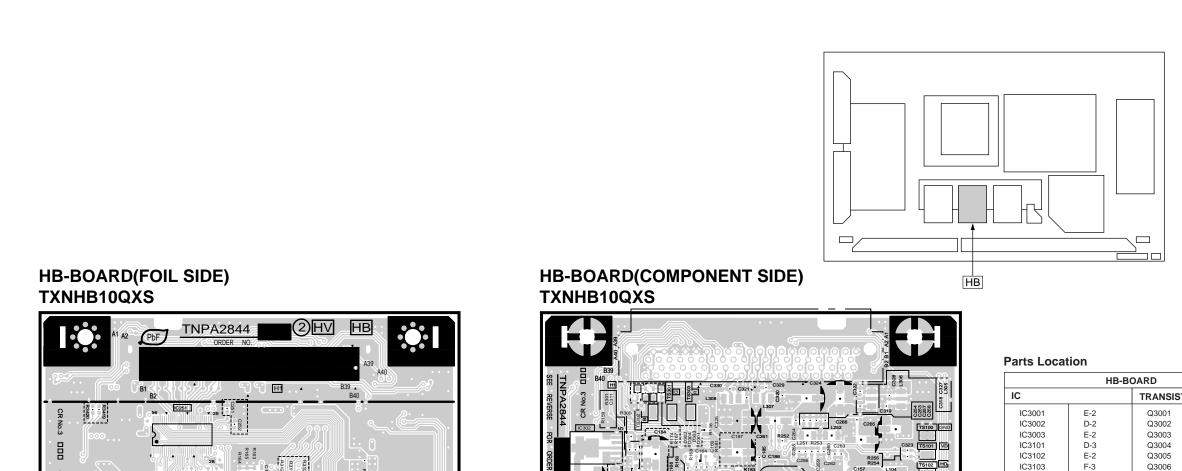
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TH-37PW7BX/EX
TH-37PWD7BK/EK/UY
TH-42PW7BX/EX
TH-42PWD7BK/BS/EK/ES/UY
HA-BOARD TXNHA10RBS



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TH-37PW7BX/EX
TH-37PWD7BK/EK/UY
TH-42PW7BX/EX
TH-42PWD7BK/BS/EK/ES/UY
HB-BOARD TXNHB10QXS

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	HB-I	BOARD	
IC		TRANSISTO	R
IC3001	E-2	Q3001	E-2
IC3002	D-2	Q3002	B-2
IC3003	E-2	Q3003	E-2
IC3101	D-3	Q3004	C-2
IC3102	E-2	Q3005	D-2
IC3103	F-3	Q3006	B-2
IC3104	E-2	Q3007	C-2
IC3105	F-2	Q3023	D-2
IC3201	B-3	Q3051	B-2
IC3251	B-4	Q3052	B-2
IC3301	F-3	Q3101	B-2
IC3302	D-4	Q3102	C-2
IC3303	G-3	Q3104	B-2
IC3304	F-2	TP	1
IC3305	F-2	IF	
IC3699	F-2	TS3100	G-4
		TS3101	G-4
		TS3102	G-4
		TS3301	E-4
		TS3302	E-4
		TS3303	E-4

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TH-37PW7BX/EX TH-37PWD7BK/EK/UY TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY HB-BOARD TXNHB10QXS



**HX-BOARD(FOIL SIDE)** 

TNPA2842 1 SEE REVERSE FOR ORDER NO.

TZTNP01VBSE (FOR 37 INCH MODELS)

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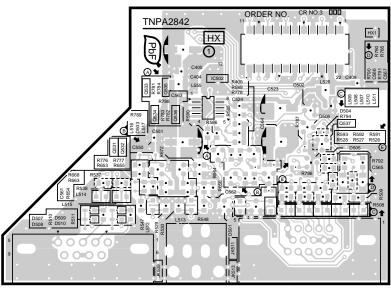
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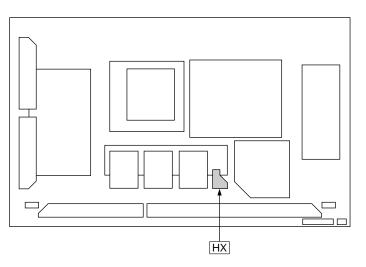
TH-37PW7BX/EX TH-37PWD7BK/EK/UY HX-BOARD TZTNP01VBSE

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# HX-BOARD(COMPONENT SIDE) TZTNP01VBSE (FOR 37 INCH MODELS)





#### **Parts Location**

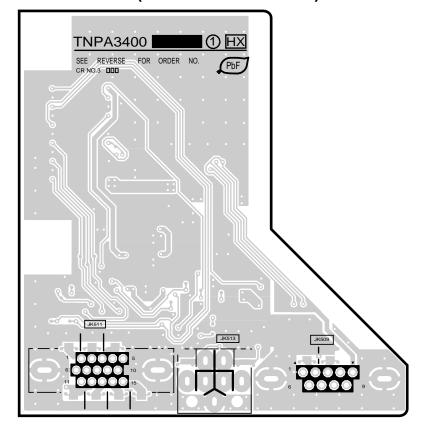
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HX-BOARD					
IC		TRANSISTO	₹		
IC3502	E-4	Q3531	D-4		
		Q3532	D-4		
		Q3533	E-4		
		Q3534	E-4		
		Q3535	E-4		
		Q3536	E-4		
		Q3537	F-4		

# HX-BOARD(FOIL SIDE) TZTNP01VCSE (FOR 42 INCH MODELS)

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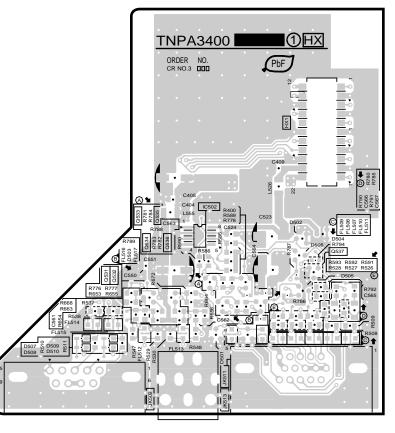


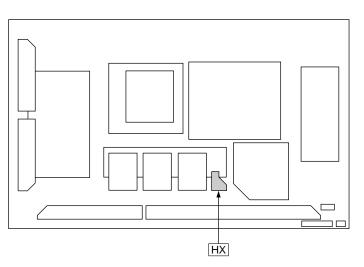
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# HX-BOARD(COMPONENT SIDE) TZTNP01VCSE (FOR 42 INCH MODELS)





#### **Parts Location**

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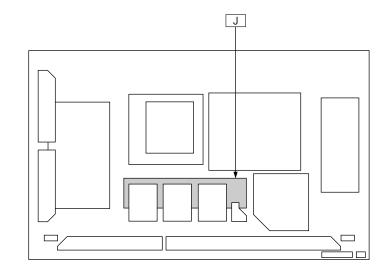
HX-BOARD					
IC		TRANSISTO	R		
IC3502	E-4	Q3531	D-3		
		Q3532	D-3		
		Q3533	E-3		
		Q3534	E-3		
		Q3535	E-3		
		Q3536	E-3		
		Q3537	F-3		

TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY HX-BOARD TZTNP01VCSE

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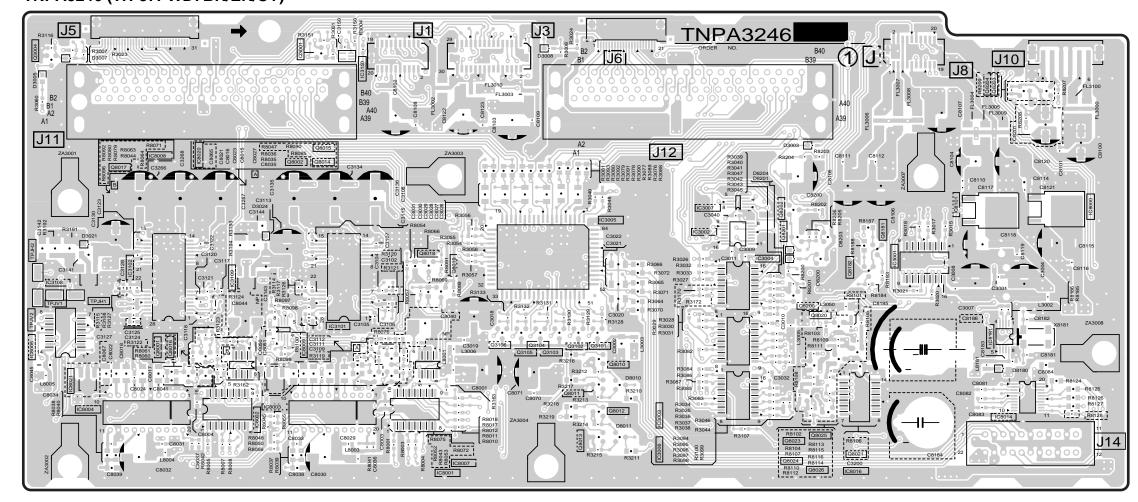
#### **Parts Location**

		J	J-BOARD (COM	IPONENT SIDI	E)		
IC		IC8009	C-2	Q8012	E-2	TRANSISTO	R
IC3001 IC3002 IC3003 IC3004 IC3005 IC3006	G-3 E-3 E-1 F-3 E-3 E-1	IC8014 IC8016 IC8020 IC8021 IC8101 IC8181	G-2 F-1 B-3 A-2 G-3 G-2	Q8013 Q8014 Q8015 Q8016 Q8017 Q8018	D-1 C-3 C-3 B-2 A-3 C-3	TPJH1 TPJH2 TPJV1 TPJV2	A-2 A-3 A-2 A-2
IC3007	E-3	TRANSISTO	R	Q8019 Q8020	D-3 F-2		
IC3101 IC3102 IC3108 IC3109 IC3150 IC8000 IC8001 IC8002 IC8003 IC8004 IC8004 IC8005	C-2 A-2 B-2 C-4 H-3 C-1 B-1 B-2 A-2	Q3001 Q3004 Q3101 Q3102 Q3103 Q3104 Q3105 Q3106 Q8001 Q8002 Q8010	C-4 A-4 E-2 D-2 D-2 D-2 D-2 D-2 C-3 E-2	Q8021 Q8023 Q8024 Q8025 Q8026 Q8181 Q8182 Q8200 Q8201 Q8201 Q8202 Q8203	F-1 F-1 F-1 F-1 F-3 F-2 F-2 F-3 F-3 G-4		
IC8007 IC8008	D-1 B-3	Q8010 Q8011	D-2	Q8204	G-4		



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# J-BOARD(COMPONENT SIDE) TNPA3246AB (TH-37PW7BX/EK) TNPA3246 (TH-37PWD7BK/EK/UY)



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TH-37PW7BX/EX J-BOARD TNPA3246AB TH-37PWD7BK/EK/UY J-BOARD TNPA3246

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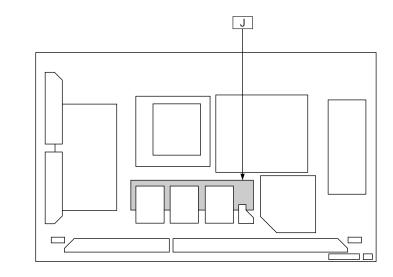
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TH-37PW7BX/EX J-BOARD TNPA3246AB TH-37PWD7BK/EK/UY J-BOARD TNPA3246

#### **Parts Location**

		J-BOARD (CC	MPONENT SID	E)		
IC	IC8014	H-2	Q8010	D-2	TRANSIST	OR
IC3001   F-2   IC3002   E-3   IC3003   D-2   IC3004   E-3   IC3006   D-2   IC3007   E-3	IC8015 IC8016 IC8020 IC8021 IC8100 IC8101 IC8181	H-2 E-2 B-3 A-2 G-3 F-3 H-3	Q8011 Q8012 Q8013 Q8014 Q8015 Q8016 Q8018	D-2 D-2 D-2 B-3 B-3 B-2 C-3	TPJH1 TPJH2 TPJV1 TPJV2	A-3 A-3 A-3 A-3
IC3101   C-2     IC3102   A-3     IC3108   A-3     IC3109   B-3     IC3150   C-4     IC8001   C-2     IC8002   B-2     IC8003   B-2     IC8005   A-2     IC8007   C-3     IC8009   A-3     IC8009   B-2	Q3001 Q3101 Q3004 Q3102 Q3102 Q3103 Q3104 Q3105 Q3106 Q8001 Q8002 Q8004	B-4 D-2 A-4 D-2 D-2 D-2 C-2 C-2 A-2 B-3 A-4	Q8019 Q8020 Q8021 Q8023 Q8024 Q8025 Q8026 Q8181 Q8182 Q8200 Q8201 Q8201 Q8202 Q8203	E-3 E-2 E-2 E-2 E-2 E-2 E-3 E-3 F-2 E-3 H-4		



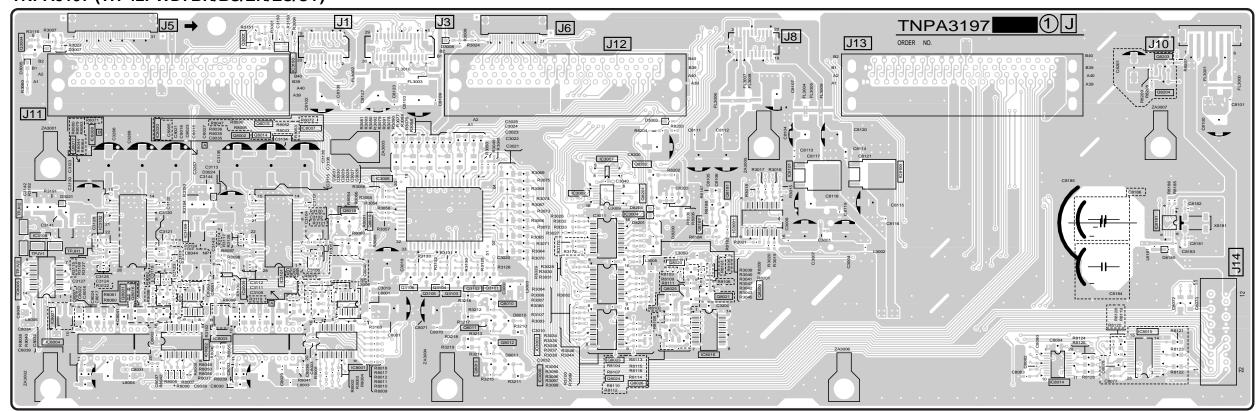
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J-BOARD(COMPONENT SIDE)
TNPA3197AB (TH-42PW7BX/EX)
TNPA3197 (TH-42PWD7BK/BS/EK/ES/UY)

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TH-42PW7BX/EX J-BOARD TNPA3197AB TH-42PWD7BK/BS/EK/ES/UY J-BOARD TNPA3

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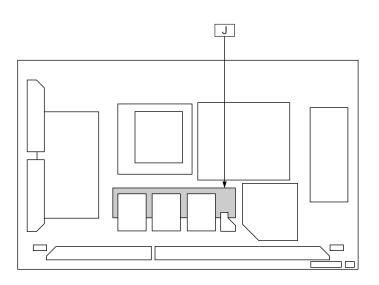
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TH-42PW7BX/EX J-BOARD TNPA3197AB TH-42PWD7BK/BS/EK/ES/UY J-BOARD TNPA3

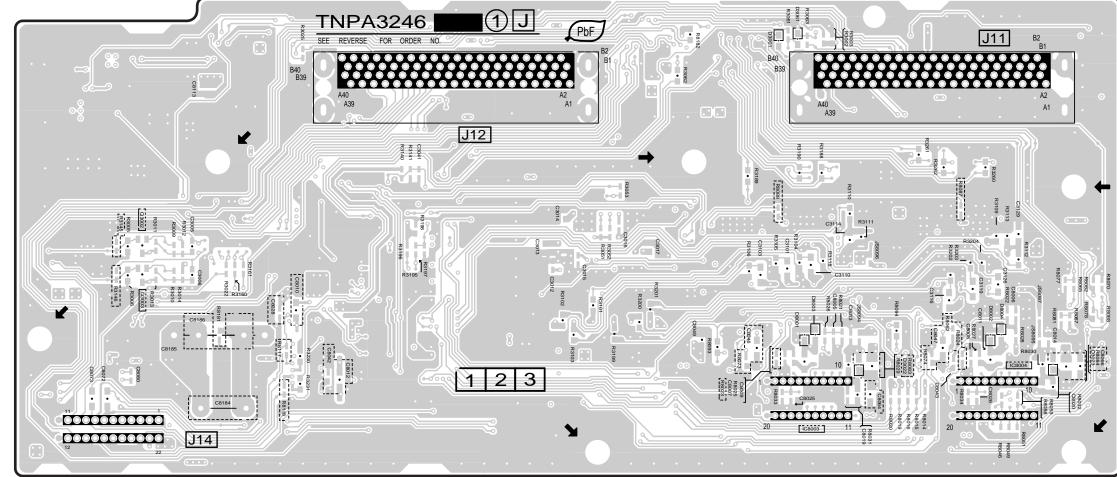


J-BOARD (FOIL SIDE)					
IC		TRANSISTOR			
IC8003	F-1	Q3002	B-3		
IC8004 G-2 Q3003 B-2					



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J-BOARD(FOIL SIDE)
TNPA3246AB (TH-37PW7BX/EK)
TNPA3246 (TH-37PWD7BK/EK/UY)



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TH-37PW7BX/EX J-BOARD TNPA3246AB TH-37PWD7BK/EK/UY J-BOARD TNPA3246

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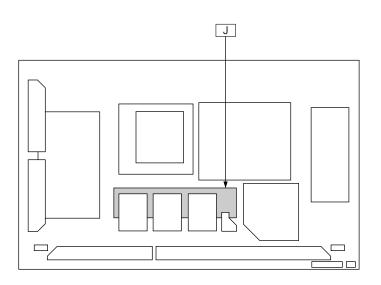
TH-37PW7BX/EX J-BOARD TNPA3246AB TH-37PWD7BK/EK/UY J-BOARD TNPA3246

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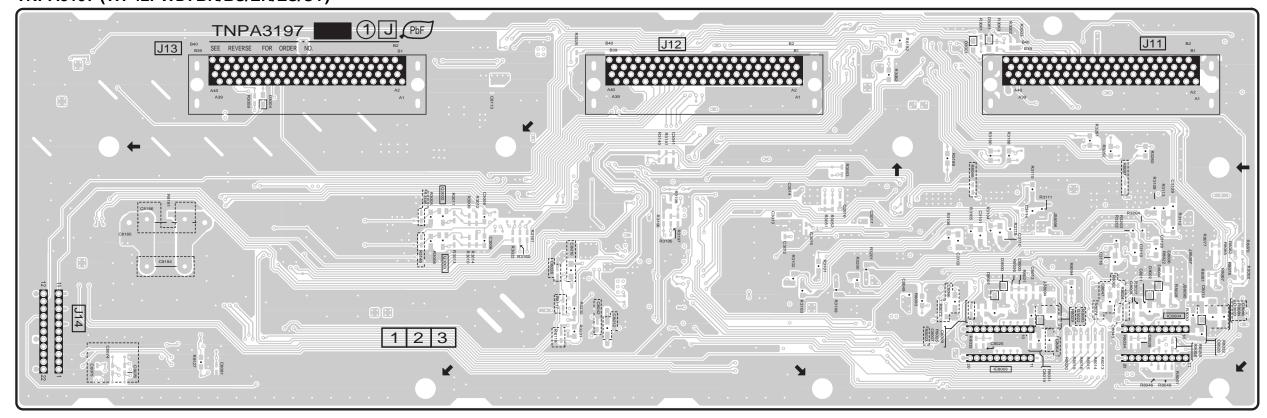
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#### Parts Location

J-BOARD (FOIL SIDE)				
IC		TRANSISTOR		
IC8003	G-2	Q3002	D-3	
IC8004	H-2	Q3003	D-3	



J-BOARD(FOIL SIDE)
TNPA3197AB (TH-42PW7BX/EX)
TNPA3197 (TH-42PWD7BK/BS/EK/ES/UY)



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TH-42PW7BX/EX J-BOARD TNPA3197AB TH-42PWD7BK/BS/EK/ES/UY J-BOARD TNPA3

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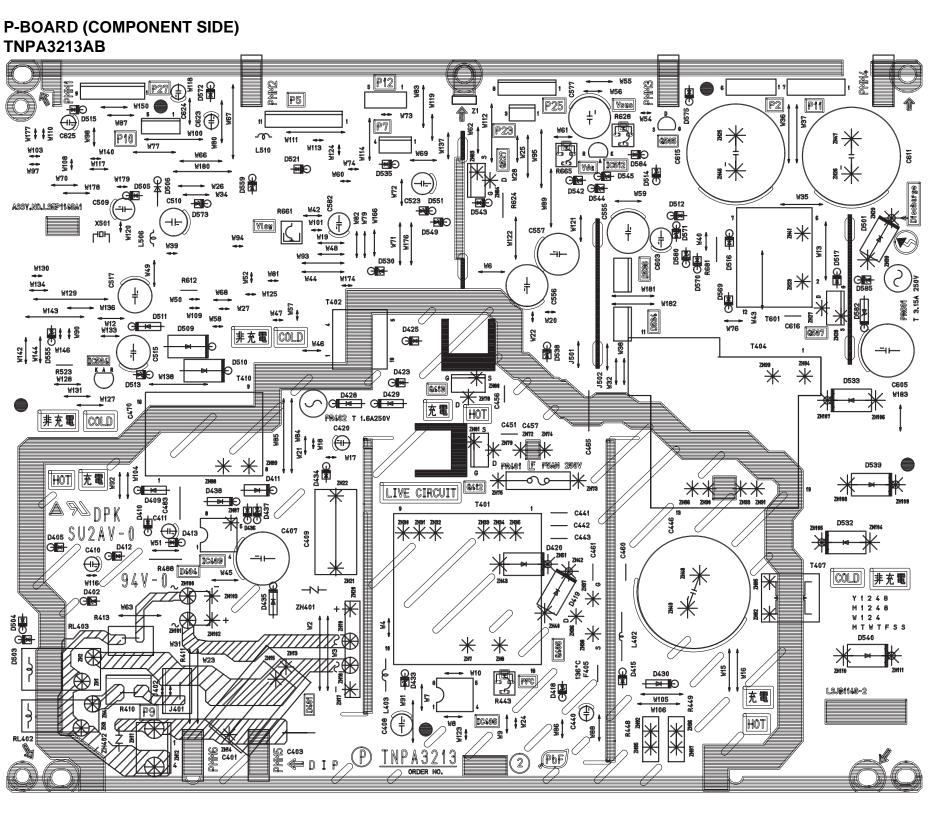
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TH-42PW7BX/EX J-BOARD TNPA3197AB TH-42PWD7BK/BS/EK/ES/UY J-BOARD TNPA3

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TH-37PW7BX/EX TH-37PWD7BK/EK/UY TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY P-BOARD TNPA3213AB

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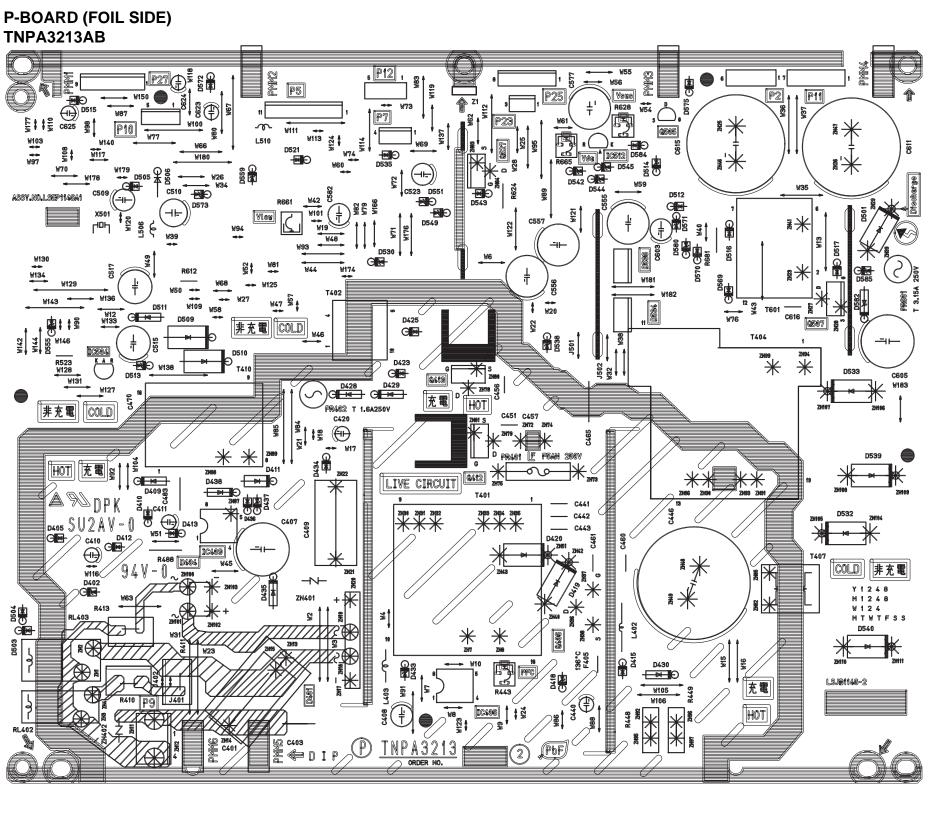
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TH-37PW7BX/EX TH-37PWD7BK/EK/UY TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY P-BOARD TNPA3213AB

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TH-37PW7BX/EX TH-37PWD7BK/EK/UY TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY P-BOARD TNPA3213AB

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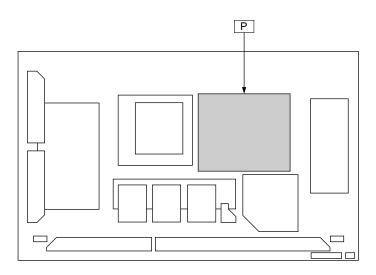
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TH-37PW7BX/EX
TH-37PWD7BK/EK/UY
TH-42PW7BX/EX
TH-42PWD7BK/BS/EK/ES/UY
P-BOARD TNPA3213AB



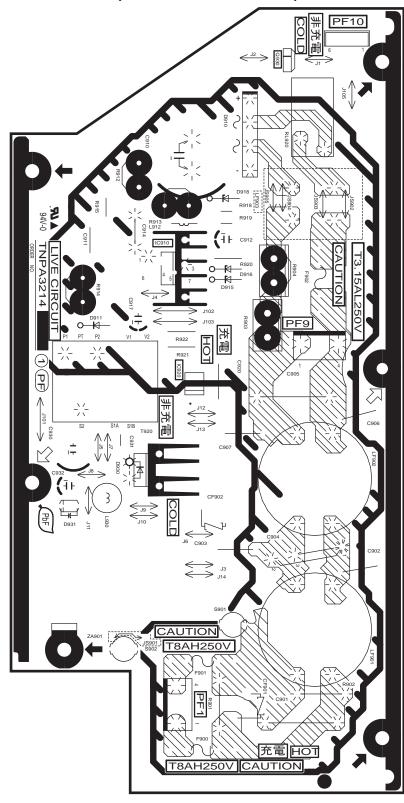
#### **Parts Location**

TH-37PW7BX/EX
TH-37PWD7BK/EK/UY
TH-42PW7BX/EX
TH-42PWD7BK/BS/EK/ES/UY
P-BOARD TNPA3213AB

#### **Parts Location**

P-BOARD (COMPONENT SIDE)					
IC TRANSISTOR					
IC406	D-2	Q406	E-3		
IC409	C-3	Q410	G-1		
IC504	B-4	Q412	D-4		
IC511	C-5	Q413	E-4		
IC512	D-6	Q414	G-2		
		Q415	H-1		
		Q527	D-5		
		Q531	D-5		

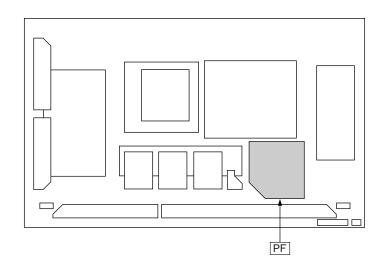
# PF-BOARD(COMPONENT SIDE) TXNPF10VBS (FOR 37 INCH MODELS)



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#### Parts Location

PF-BOARD (COMPONENT SIDE)				
IC		TRANSISTOR		
IC910 IC920	C-5 C-4	Q930	C-6	

G

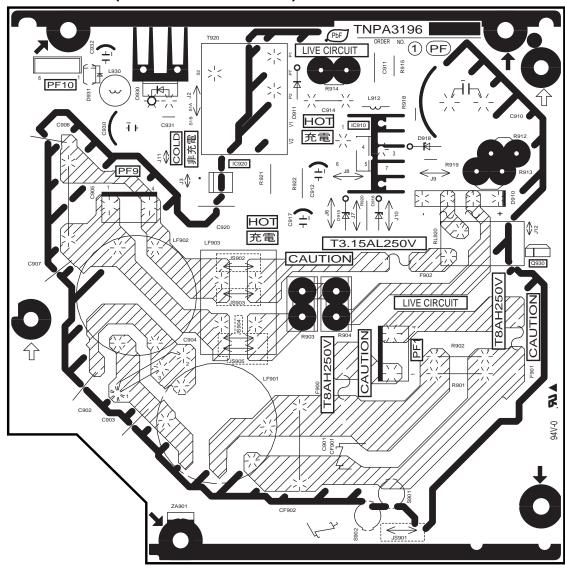
TH-37PW7BX/EX TH-37PWD7BK/EK/UY PF-BOARD TXNPF10VBS

В

Α

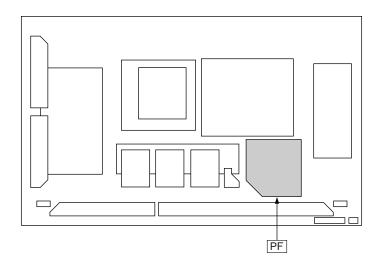
TH-37PW7BX/EX TH-37PWD7BK/EK/UY PF-BOARD TXNPF10VBS

# PF-BOARD(COMPONENT SIDE) TXNPF10VAS (FOR 42 INCH MODELS)



С

D



#### **Parts Location**

PF-BOARD (COMPONENT SIDE)				
IC		TRANSISTOR		
IC910 IC920	D-5 C-4	Q930	E-4	

G

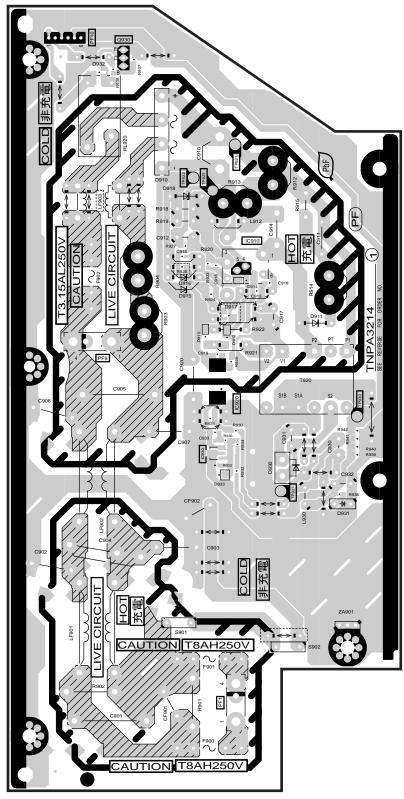
TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY PF-BOARD TXNPF10VAS

В

Α

TH-42PW7BX/EX TH-42PWD7BK/BS/EK/ES/UY PF-BOARD TXNPF10VAS

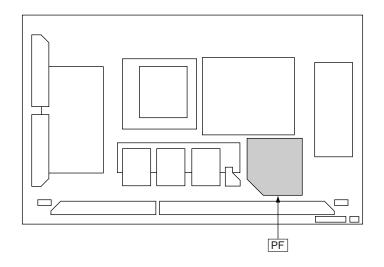




С

D

Е



#### **Parts Location**

PF-BOARD (FOIL SIDE)					
IC		TP	TP		
IC910 IC920 IC930	C-5 C-4 C-3	TP921 TP922 TP923	C-5 C-5 C-5		
TRANSISTOR		TP930 TP931	D-3 C-3		
Q930	B-6				

G

TH-37PW7BX/EX TH-37PWD7BK/EK/UY PF-BOARD TXNPF10VBS

Α

В

TH-37PW7BX/EX TH-37PWD7BK/EK/UY PF-BOARD TXNPF10VBS

# **Parts Change Notice**

# TH-42PW7BX TH-42PW7EX TH-42PW7LZ TH-42PWD7UX TH-42PWD6UX TH-42PWD6UXA

Please revise the original parts list in the Service Manual to conform to the change(s) shown herein. If new part numbers are shown, be sure to use then ordering parts.

Reason for Change					
*The circled item indicates the reason. If	The circled item indicates the reason. If no marking, see the Notes in the bottom column.				
Improve performance					
<ul><li>2. Change of material or dimension</li></ul>	The material was changed from plastic to metal.				
3. To meel approved specification					
4. Standardization					
5. Addition					
6. Deletion					
● 7. Correction					
8. Other					

In	nterchangeability Code						
**T	*The circled item indicates the interchangeability. If no marking, see the Notes in the bottom column.						
	Parts		Set Production				
	A Original	$\overline{\mathbf{x}}$		Original or new parts may be used in early or late production set.			
	New		Late	Use original parts until exhausted, then stock new parts.			
	B Original New	$\overline{Z}$		Original parts may be used in early production sets only. New parts may be used in early or late production sets. Use original parts where possible, then stock new parts.			
•	C Original New	_		New parts only may be used in early or late production sets. Stock new parts.			
	D Original New			Original parts may be used in early production sets only. New parts may be used in late production sets only. Stock both original and new parts.			
	E Other		-				

Part Number						
Model No.	Ref. No.	Original Part No.	New Part No.	Notes	Part Name & Descriptions	
TH-42PW7BX TH-42PW7EX	34	TXFMX020MMS	TXFUX01MLSU		PLATE (FRONT GLASS/ UPPER)	
TH-42PW7LZ TH-42PWD7UX	35	TXFMX030MMS	TXFUX03MLSU		PLATE (FRONT GLASS/ BOTTOM)	
	36	TXFMX040MMS	TXFUX02MLSU		PLATE (FRONT GLASS/ R/L)	
TH-42PWD6UX TH-42PWD6UXA	12	TXFMX020MMS	TXFUX01MLSU		PLATE (FRONT GLASS/ UPPER)	
	13	TXFMX030MMS	TXFUX03MLSU		PLATE (FRONT GLASS/ BOTTOM)	
	14	TXFMX040MMS	TXFUX02MLSU		PLATE (FRONT GLASS/ R/L)	

File this Parts Change Notice with your copy of the Service Manual.

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